# JVC

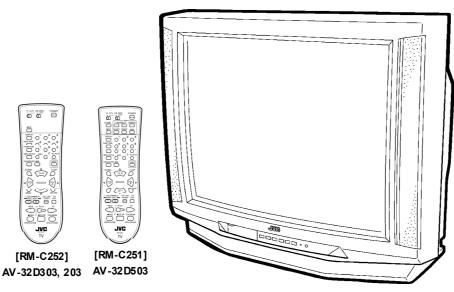
# **SERVICE MANUAL**

# **COLOR TELEVISION**

AV-32D503<sub>M/R/M</sub> AV-32D303<sub>M/R/M</sub> AV-32D203<sub>M/R/M</sub> BASIC CHASSIS

GΕ





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# **SPECIFICATIONS**

ITEMS	CONTENTS		
Dimensions (W×H×D)	33-7/8"×27×21-5/8" (859mm×684mm×548mm)		
Mass	114.4 lbs / 52.0kg		
TV System and Color system			
TV RF System	CCIR(M)		
Color System	NTSC-M		
Sound System	BTSC (Multi Channel Sound)		
TV Receiving Channels and Frequency			
VL Band	(02~06)54MHz~88MHz		
VH Band	(07 ~ 13) 174MHz~216MHz		
UHF Band	(14~69)470MHz~806MHz		
CATV Receiving Channels and Frequency			
Low Band	(02~06, A-8) by (02~06&01)		
High Band	(07~13)by(07~13)		
Mid Band	(A~1) by (14~22)		
Super Band	(J~W) by (23~36) (54MHz ~804MHz)		
Hyper Band	(W+1~W+28) by (37~64)		
Ultra Band	(W+29~W+84) by (65~125)		
Sub Mid Band	(A8, A4~A1)by(01, 96~99)		
TV/CATV Total Channel	180 Channels		
Intermediate Frequency			
Vide o I F Carrier	45.75 MHz		
Sound IF Carrier	41.25 MHz (4.5MHz)		
Color Sub Carrier	3.58 MHz		
Power Input	120V AC, 60Hz		
Power Consumption	133W [AV-32D503]		
rower Consumption	128W [AV-32D303, AV-32D203]		
Picture Tube	32" (80cm) measured diagonally, Full Square		
High Voltage	31kV ±1.3kV (at zero beam current)		
Speaker	2"×4-3/4" (5×12cm) Oval type ×2		
Audio Power Output	5W+5W		
Input termi nals			
INPUT1 Video	1Vp-p, 75 Ω, RCA pin		
S-Video	Mini din 4 pin		
I	Y: 1Vp-p, negative sync provided when terminated with 75Ω		
1	C: 0.286Vp-p, burst signal when terminated with 75 Ω		
Audio L/R	500mV ms (-4dBs), high impedance, RCA pin		
INPUT2 Video	1Vp-p, 75 Ω , RCA pin		
Component (Y, Pb, Pr)	RCA pin		
1	Y: 1Vp-p, negative sync provided when terminated with 75Ω		
1	Pb/Pr: 0.7Vp-p, 75Ω		
Audio L/R	500mV ms (-4dBs), high impedance, RCA pin		
INPUT3 Video	1Vp-p, 75 Ω, RCA pin		
Audio L/R			
Audio Output	500mVrms (-4dBs), low Impedance, 1kHz when modulated 100%, RCA pin		
AV Compu linkⅢ interface	3.5mm mini jack		
Antenna terminal	75 Ω (VHF/UHF) Terminal, F-Type Connector		
Remote Control Unit	RM-C251 (AA/R6/UM-3 battery × 2) [AV-32D503]		
	RM-C252 (AA/R6/UM-3 battery × 2) [AV-32D303, AV-32D203]		

Design & specifications are subject to change without notice.

# SAFETY PRECAUTIONS

- The design of this product contains special hardware, many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Service should be performed by qualified personnel only.
- Alterations of the design or circuitry of the products should not be made. Any design alterations or additions will void the manufacturer's warranty and will further relieve the manufacturer of responsibility for personal injury or property damage resulting therefrom.
- 3. Many electrical and mechanical parts in the products have special safety-related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the parts list of Service manual. Electrical components having such features are identified by shading on the schematics and by (Δ) on the parts list in Service manual. The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement part shown in the parts list of Service manual may cause shock, fire, or other hazards.

### 4. Use isolation transformer when hot chassis.

The chassis and any sub-chassis contained in some products are connected to one side of the AC power line. An isolation transformer of adequate capacity should be inserted between the product and the AC power supply point while performing any service on some products when the HOT chassis is exposed.

Don't short between the LIVE side ground and ISOLATED (NEUTRAL) side ground or EARTH side ground when repairing.

Some model's power circuit is partly different in the GND. The difference of the GND is shown by the LIVE : ( $\bot$ ) side GND, the ISOLATED(NEUTRAL) : ( $\bot$ ) side GND and EARTH : ( $\oplus$ ) side GND. Don't short between the LIVE side GND and ISOLATED(NEUTRAL) side GND or EARTH side GND and never measure with a measuring apparatus (oscilloscope etc.) the LIVE side GND and ISOLATED(NEUTRAL) side GND or EARTH side GND at the same time.

- If above note will not be kept, a fuse or any parts will be broken.

  6. If any repair has been made to the chassis, it is recommended that the B1 setting should be checked or adjusted (See ADJUSTMENT OF B1 POWER SUPPLY).
- 7. The high voltage applied to the picture tube must conform with that specified in Service manual. Excessive high voltage can cause an increase in X-Ray emission, arcing and possible component damage, therefore operation under excessive high voltage conditions should be kept to a minimum, or should be prevented. If severe arcing occurs, remove the AC power immediately and determine the cause by visual inspection (incorrect installation, cracked or melted high voltage harness, poor soldering, etc.). To maintain the proper minimum level of soft X-Ray emission, components in the high voltage circuitry including the picture tube must be the exact replacements or alternatives approved by the manufacturer of the complete product.
- 8. Do not check high voltage by drawing an arc. Use a high voltage meter or a high voltage probe with a VTVM. Discharge the picture tube before attempting meter connection, by connecting a clip lead to the ground frame and connecting the other end of the lead through a 10kΩ 2W resistor to the anode button.
- 9. When service is required, observe the original lead dress. Extra precaution should be given to assure correct lead dress in the high voltage circuit area. Where a short circuit has occurred, those components that indicate evidence of overheating should be replaced. Always use the manufacturer's replacement components.

### 10. Isolation Check

### (Safety for Electrical Shock Hazard)

After re-assembling the product, always perform an isolation check on the exposed metal parts of the cabinet (antenna terminals, video/audio input and output terminals, Control knobs, metal cabinet, screwheads, earphone jack, control shafts, etc.) to be sure the product is safe to operate without danger of electrical shock

### (1) Dielectric Strength Test

The is olation between the AC primary circuit and all metal parts exposed to the user, particularly any exposed metal part having a return path to the chassis should withstand a voltage of 1100V AC (r.m.s.) for a period of one second.

(.... Withstand a voltage of 1100 V AC (r.m.s.) to an appliance rated up to 120 V, and 3000 V AC (r.m.s.) to an appliance rated 200 V or more, for a period of one second.)

This method of test requires a test equipment not generally found in the service trade.

### (2) Leakage Current Check

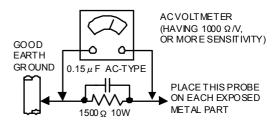
Plug the AC line cord directly into the AC outlet (do not use a line is olation transformer during this check.). Using a "Leakage Current Tester", measure the leakage current from each exposed metal part of the cabinet, particularly any exposed metal part having a return path to the chassis, to a known good earth ground (water pipe, etc.). Any leakage current must not exceed 0.5mA AC (r.m.s.).

However, in tropical area, this must not exceed 0.2mA AC (r.m.s.).

### Alternate Check Method

Plug the AC line cord directly into the AC outlet (do not use a line isolation transformer during this check.). Use an AC voltmeter having 1000 ohms per volt or more sensitivity in the following manner. Connect a  $1500\,\Omega$  10W resistor paralleled by a  $0.15\,\mu$  F AC-type capacitor between an exposed metal part and a known good earth ground (water pipe, etc.). Measure the AC voltage across the resistor with the AC voltmeter. Move the resistor connection to each exposed metal part, particularly any exposed metal part having a return path to the chassis, and measure the AC voltage across the resistor. Now, reverse the plug in the AC outlet and repeat each measurement. Any voltage measured must not exceed 0.75V AC (r.m.s.).

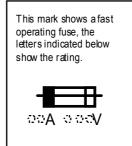
However, in tropical area, this must not exceed 0.3V AC (r.m.s.). This corresponds to 0.2mA AC (r.m.s.).

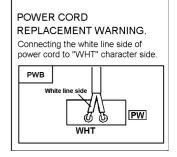


### 11. High voltage hold down circuit check.

After repair of the high voltage hold down circuit, this circuit shall be checked to operate correctly.

See item "How to check the high voltage hold down circuit"

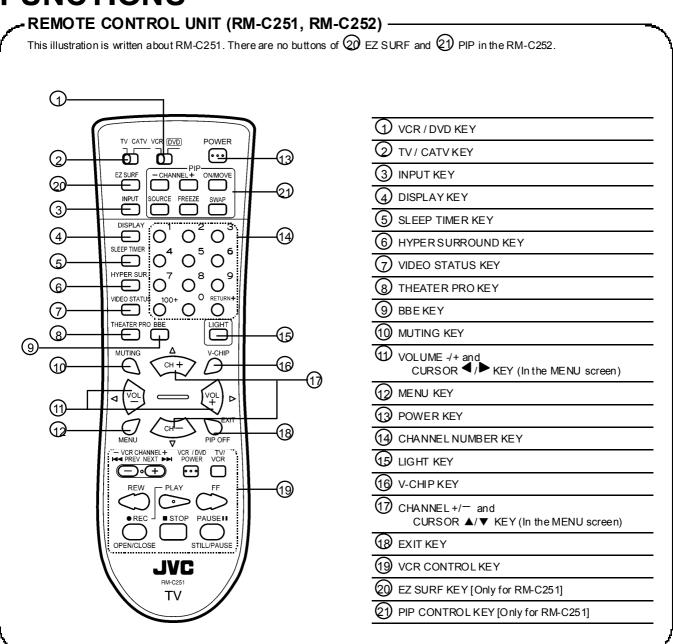




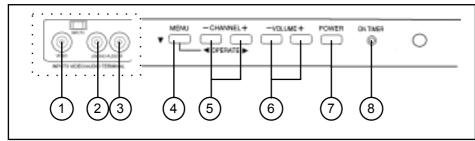
# **FEATURES**

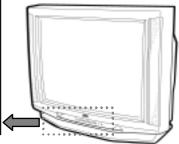
- Title TELE-TEXT broadcast of C1, C2, T1, and T2 formula is receivable.
- The voice multiplex function of the MTS system is built in.
- By the THEATER PROfunction, a reality to which it is viewing and listening in the movie theater can be tasted.
- By the EZ SURF function, channel ID and a program name are displayed in the screen automatically [Only for AV-32D503].
- By the three-line digital comb filter, the refreshed image can be seen.
- Two programs can be displayed on the screen by the 2 tuner PIP circuit [Only for AV-32D503].
- Expression of a favorite screen can be chosen by the VIDEO STATUS function.
- A program can be enjoyed with a powerful sound by the HYPER SURROUND function.
- Since the V chip is built in, it can choose, view and listen to a healthy program.
- The RETURN PLUS function is built in.
- A quick favorite program can be looked for by the HYPER-SCAN function.
- Since the component signal input terminal is equipped, it reappears direct without deteriorating the signal from DVD,.

# **FUNCTIONS**



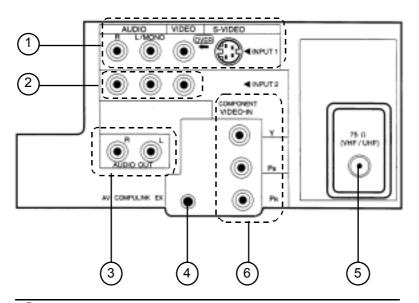
### -FRONT PANEL CONTROLS -





① INPUT 3 VIDEO TERMINAL	⑥ VOLUME −/+ KEY
② INPUT 3 AUDIO L TERMINAL	⑦ POWER KEY
③ INPUT 3 AUDIO R TERMINAL	® ON TIMER / POWER LED
④ MENU KEY, MENU ▼ KEY	
⑤ CHANNEL -/+ KEYS MENU ◀/▶ KEYS	

### REAR TERMINAL



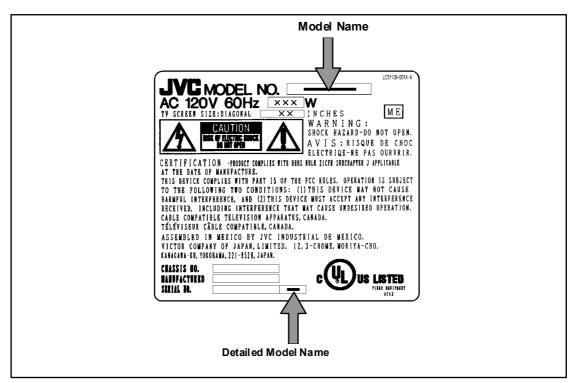
- ① INPUT 1 TERMINAL (S-VIDEO, V, L, R)
- ② INPUT 2 TERMINAL (V, L, R)
- 3 AUDIO OUTPUT TERMINAL
- 4 AV COMPULINK III TERMINAL
- **⑤** ANTENNA TERMINAL
- 6 INPUT2 COMPONENT SIGNAL TERMINAL (Y, PB, PR)

# **MAIN DIFFERENCE LIST**

PARTS NAME	MODEL	ſΥ	/R	/M
ITC TUBE (Inc. DY, PC MAGNET,		A80AKB50X04	A80AEJ15X01	A80JUA061X06
MAIN PWB		SGE-1003A-M2	SGE-1022A-M2	SGE-1021A-M2
CRT SOCKET PWB		SGE-3004A-M2	SGE-3007A-M2	SGE-3006A-M2
PIP PWB		SGE-5001A-M2	<b>←</b>	<b>←</b>
E-COAXIAL ASSY	AV-32D503	WJX0014-002A	<b>←</b>	←
CONTROL KNOB		LC20217-005B-A	←	←
JVC MARK		CM48006-007-C	<b>←</b>	<b>←</b>
FRONT CABI. ASSY		LC10641-005B-A	←	←
DOOR		LC20409-005B-A	<b>←</b>	<b>←</b>
REMOCON UNIT		RM-C251-1H	<b>←</b>	<b>←</b>
ITC TUBE (Inc. DY, PC MAGNET, WEDGE)		A80AKB50X04	A80AEJ15X01	A80JUA061X06
MAIN PWB		SGE-1006A-M2	SGE-1028A-M2	SGE-1027A-M2
CRT SOCKET PWB		SGE-3004A-M2	SGE-3007A-M2	SGE-3006A-M2
PIP PWB		×	×	×
E-COAXIAL ASSY	AV-32D303	×	×	×
CONTROL KNOB		LC20217-005B-A	←	<b>←</b>
JVC MARK		CM48006-007-C	←	<b>←</b>
FRONT CABI. ASSY		LC10641-005B-A	←	←
DOOR		LC20409-005B-A	←	←
REMOCON UNIT		RM-C252-1H	←	←
ITC TUBE (Inc. DY, PC MAGNET, WEDGE)		A80AKB50X04	A80AEJ15X01	A80JUA061X06
MAIN PWB		SGE-1006A-M2	SGE-1028A-M2	SGE-1027A-M2
CRT SOCKET PWB		SGE-3004A-M2	SGE-3007A-M2	SGE-3006A-M2
PIP PWB		×	×	×
E-COAXIAL ASSY	AV-32D203	×	×	×
CONTROL KNOB		LC20217-001C-A	<b>←</b>	<b>←</b>
JVC MARK		CM48006-006-C	<b>←</b>	<b>←</b>
FRONT CABI. ASSY		LC10641-001G-A	<b>←</b>	<b>←</b>
DOOR		LC20409-001D-A	<b>←</b>	<b>←</b>
REMOCON UNIT		RM-C252-1H	<b>←</b>	<b>←</b>

# **HOW TO IDENTIFY MODELS**

How to recognize from the appearance of the model concerned is written below. Please distinguish from several contents currently printed on the rating label.



	Model Name	Detailed Model Number
AV-32D503 /Y	AV-32 D5 03	Υ
AV-32D503 /R		R
AV-32 D5 03 /M		М
AV-32D303 /Y		Υ
AV-32D303 /R	AV-32 D3 03	R
AV-32D303 /M		М
AV-32 D2 03 /Y		Υ
AV-32D203 /R	AV-32D203	R
AV-32 D2 03 /M		М

# SPECIFIC SERVICE INSTRUCTIONS

### **DISASSEMBLY PROCEDURE**

### **REMOVING THE REAR COVER**

- Unplug the power plug.
- 1. As shown in Fig.2, remove the **12** screws marked (A).
- 2. Remove the rear cover toward you.

### Note:

When reinstalling the rear cover, carefully push it inward after inserting the chassis into the rear cover groove.

### REMOVING THE CHASSIS BASE

- After removing the rear cover.
- 1. Slightly raise the both sides of the chassis base by hand, and remove the **2** claws marked **(B)** (Fig. 1 and Fig.2) under the both sides of the chassis from the chassis rail.
- 2. As shown in Fig.1, draw the chassis base backward along the chassis rail marked ① in the arrow direction marked ① (Fig.2.). (If necessary, detach the wire clamp, connector's etc.)

### Note:

When conducting a check with power supplied, be sure to confirm that the CRT earth wire is connected to the CRT SOCKET PWB and the MAIN PWB.

### REMOVING THE TERMINAL BOARD

- After removing the rear cover.
- 1. As shown in Fig.2, remove the **4** screws marked **E** .
- 2. When you pull out the TERMINAL BOARD, it can be removed.

### REMOVING THE FRONT CONTROL PW BOARD

- $\bullet$  After removing the rear cover and chassis base .
- 1. As shown in Fig.2, remove the **2** screws marked **(F)** attached the FRONT CONTROL PWB with the front cabinet.
- 2. Then remove the FRONT CONTROL PWB.

### REMOVING THE FRONT AV IN PW BOARD

- After removing the rear cover and chassis base.
- 1. As shown in Fig.2, remove the **2** screws marked **©**.
- 2. Then remove the FRONT AV IN PW B.

### REMOVING THE SPEAKER

- After removing the rear cover and chassis base.
- 1. As shown in Fig.2, remove the 4 screws marked  $\Theta$ .
- 2. Follow the same steps when removing the other hand speaker.

### CHECKING THE MAIN PW BOARD

- 1. To check the backside of the MAIN PW Board.
  - (1) Pull out the chassis base. (Refer to REMOVING THE CHASSIS BASE).
  - (2) Erect the chassis vertically so that you can easily check from the backside of the MAIN PWB

### **CAUTION**

- When erecting the chassis, be careful so that there will be no contacting with other PWB.
- Before turning on power, make sure that the CRT earth wire and other connectors are properly connected.

### WIRE CLAMPING AND CABLE TYING

- 1. Be sure to clamp the wire.
- Never remove the cable tie used for tying the wires together. Should it be inadvertently removed, be sure to tie the wires with a new cable tie.

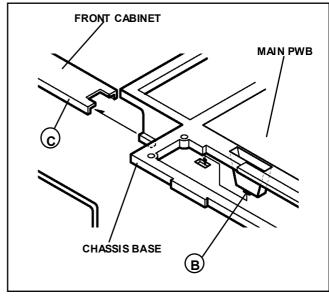
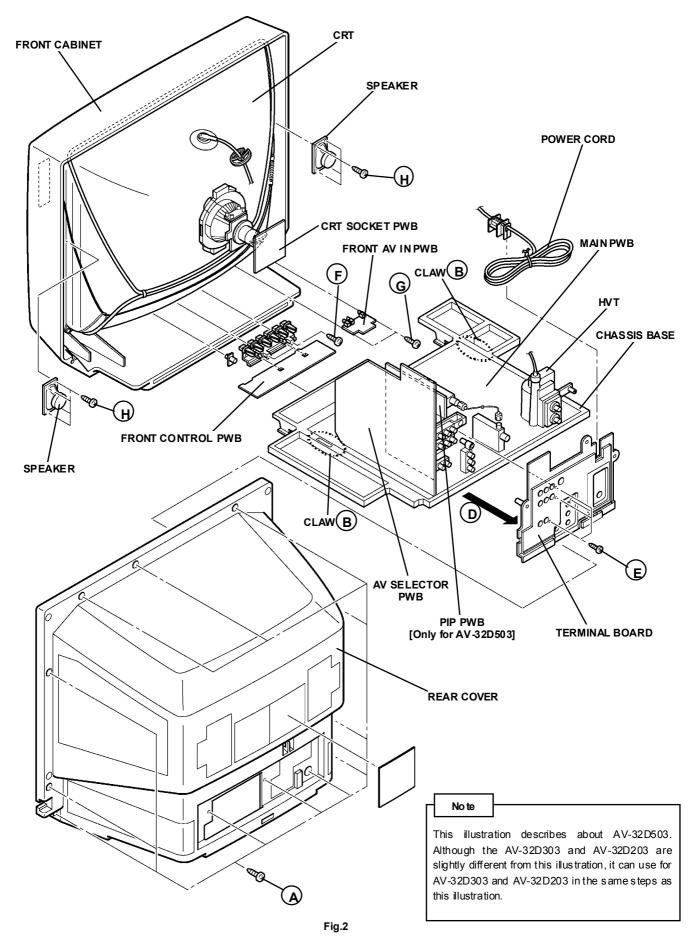


Fig. 1



No. 51947

### MEMORY IC REPLACEMENT

### 1. Memory IC

This model uses the memory IC.

This memory IC stores data for proper operation of the video/chroma and deflection circuits.

When replacing, be sure to use the IC containing initial setting data.

### 2. Memory IC replacement procedure

### (1) Power off

Switch off the power and disconnect the power plug from the AC outlet.

### (2) Replace the memory IC

Be sure to use the memory IC written with the initial setting values.

### (3) Power on

Connect the power plug to the AC outlet and switch on the power.

### (4) System constant check and setting

- ①Press the **SLEEP TIMER** key and set SLEEP TIMER for 「0 min」.
- ②Before disappear the display of SLEEP TIMER settings, simultaneously press the **DISPLAY** key and **VIDEO STATUS** key of the remote control unit. The SERVICE MENU screen of Fig.1 will be displayed.
- ③While the SERVICE MENU is displayed, select the SYSTEM(SYS) item with CURSOR ▼/▲ key and go into with ◀ / ▶ keys. Then the SYSTEM mode screen will be displayed as shown in Fig.2.
- (5) When adjustment has completed, the values store into memory IC automatically.
- 6 Press the EXIT key twice to return to the normal screen.

### SERVICE MENU 1.V/C(S) 2.D EF(D) 3.SOUND(A) 4.OTHERS 5.PIP(PIP) 6.3L Y/C(LYC) 7.LOW LIGHT 8. HIGH LIGHT 9.RF AFC 10.VCO 12.SYSTEM(SYS) 11.I2C BUS SELECT BY OPERATE BY EXIT BY EXIT Fig.1 12. SYSTEM (SYS) MODE

**SERVICE MENU** 

# eck the SOR ▼ selected ory IC SYS01 VIDEO \*\*\* Fig.2 KEY ASSIGNMENT OF REMOTE CONTROL UNIT

### (5) Receiving channel setting

Refer to the OPERATING INSTRUCTIONS and set the receive channels (Channels Preset) as described.

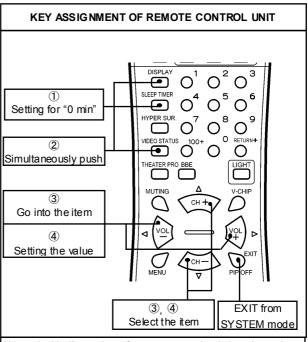
### (6) User settings

Check the user setting items according to the Table 2 given in page later.

Where these do not agree, refer to the OPERATING INSTRUCTIONS and set the items as described.

### (7) SERVICE MENU setting

Verify what to set in the SERVICE MENU, and set whatever is necessary (Fig.1). Refer to the SERVICE ADJUSTMENT for setting.



Although this illustration of remote control unit is written about RM-C251 (AV-32D503), it can use for operating RM-C252 (AV-32D303, 203) as same key assignment.

### **VALUES OF SYSTEM CONSTANT (TABLE 1)**

	CONTENTS	VARIABLE RANGE	INITIAL SETTING VALUE		
ITEM			AV-32D503	AV-32D303, 203	
SYS01	VIDEO IN	0~4	3	3	
SYS02	PIP	0~1	1	0	
SYS03	3D Y/C	0~1	0	0	
SYS04	YCV	0~1	1	1	
SYS05	CCD PCHK	0~1	1	1	
SYS06	PURITY	0~1	0	0	
SYS07	VM	0~1	0	0	
SYS08	NOISE CR	0~1	0	0	
SYS09	CLR TEMP	0~1	1	1	
SYS10	THEATER	0~1	1	1	
SYS11	THEATER PRO	0~1	1	1	
SYS12	BBE	0~1	1	1	
SYS13	HYP SURR	0~1	1	1	
SYS14	16:9 MD	0~1	0	0	
SYS15	HYPSCAN	0~1	1	1	
SYS16	EZ SURF	0~1	1	0	
SYS17	ID DISP	0~1	1	1	
SYS18	COMPULINK	0~1	1	1	
SYS19	CCD	0~1	1	1	
SYS20	VCHIP	0~1	1	1	
SYS21	VCHIP CA	0~1	1	1	
SYS22	JVC LOGO	0~1	1	1	
SYS23	CMP IN	0~1	1	1	
SYS24	CXA1875	0~1	0	0	

AV-32D503 AV-32D303 AV-32D203

### VALUES OF USER SETTING ITEMS (TABLE2)

Setting of switches on front panel and remote control unit

ITEM	INITIAL SETTING VALUE	ITEM	INITIAL SETTING VALUE
POWER	OFF	DISPLAY	OFF
CHANNEL	CABLE CH-02	VIDEO STATUS	DYNAMIC
VOLUME	10	PIP SOURCE	CABLE CH-04 [Only AV-32D503]
INPUT	TV	PIP POSITION	Left lower side [Only AV-32D503]
HYPERSURROUND	OFF	SLEEP TIMER	0
BBE	ON		

### Setting of MENU screen

PICTURE ADJUST		INITIAL SETUP	
TINT CENTER		LANG UA GE	ENG
COLOR	CENTER	FRONT PANEL LOCK	OFF
PICTURE	+8	V2 COMPONENT-IN	NO
BRIGHT	CENTER	AUTO SHUT OFF	OFF
DETAIL	+10	XDSID	ON
COLORTEMPERATURE	HIGH	CLOSED CAPTION	OFF
NOISE MUTING	ON		CAPTION : CC1
			TEXT : T1
SOUND ADJUST	SOUND ADJUST		TUNER MODE : CABLE
BASS	CENTER	CHANNELSUMMARY	Unnecess ary to set
TREBLE	CENTER	V-CHIP	OFF
BALANCE	CENTER	SET US TV RATINGS	ALL CLEAR
MTS	STEREO	SET MOVIE RATINGS	ALL CLEAR
CLOCK / TIMERS		SET CANADIAN RATINGS ENG	ALL CLEAR
	MANUAL	SET CANADIAN RATINGS FRE	ALL CLEAR
SET CLOCK	TIME ZONE : PACIFIC	UNRATED	VIEW
	D.S.T : OFF	SET LOCK CODE	"00 00"
ON/OFF TIMER	OFF		

# SERVICE ADJUSTMENTS

### **BEFORE STARTING SERVICE ADJUSTMENT**

- There are 2 way of adjusting this TV: One is with the remote control unit and the other is the conventional method using adjustment parts and components.
- The adjustment with the REMOTE CONTROL UNIT is made on the basis of the initial setting values. The setting values which adjust the screen to its optimum condition may differ from the initial setting values.
- Make sure that connection is correctly made to AC power source.
- 4. Turn on the power of the set and equipment before use, and start the adjustment procedures after waiting at least 30 minutes.
- 5. Unless otherwise specified, prepare the most suitable reception or input signal for adjustment.
- 6. Never touch any adjustment parts, which are not specified in the list for this adjustment VRs, transforms, condensers, etc.
- 7. Preparation for adjustment

Unless otherwise specified in the adjustment instructions, preset the following functions with the REMOTE CONTROL UNIT.

### User menu preset value

MENU ITEM	PRESET VALUE
VIDEO STATUS	STANDARD
TINT, COLOR, PICTURE BRIGHT, DETAIL	CENTER
NOISE MUTING	OFF
COLORTEMPERATURE	LOW
PIP [Only for AV-32D503]	OFF
BASS, TREBLE, BALANCE	CENTER
HYPERSURROUND	OFF
MTS	STEREO

### MEASURING INSTRUMENT AND FIXTURES

- 1.DC voltmeter (or digital voltmeter)
- 2. Oscilloscope
- 3. Signal generator (Pattern generator) [NTSC]
- 4. Remote control unit
- 5. TV audio multiplex signal generator
- 6. Frequency counter

### **ADJUSTMENT ITEMS**

### **BASIC ADJUSTMENT**

- Check of B1 power supply
- MAIN / SUB VCO adjustment
- RF AGC adjustment
- FOCUS adjustment

### **DEFLECTION CIRCUIT ADJUSTMENT**

- V. CENTER / V SIZE adjustment
- H SIZE / H POSITION / SIDE PINCUSHION adjustment

### VIDEO / CHROMA CIRCUIT ADJUSTMENT

- WHITE BALANCE adjustment ~LOW LIGHT~
- WHITE BALANCE adjustment ~HIGH LIGHT~
- SUB BRIGHT adjustment
- SUB CONTRAST adjustment
- SUB COLOR adjustment
- SUB TINT adjustment

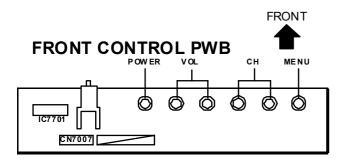
### PIP CIRCUIT ADJUSTMENT

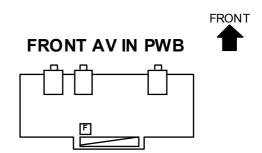
- WHITE BALANCE adjustment ~HIGH LIGHT~
- DISPLAY POSITION adjustment

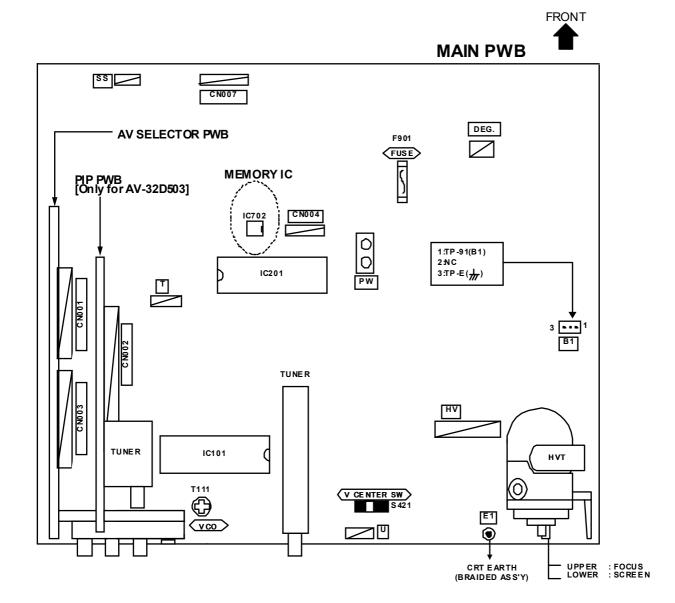
### MTS CIRCUIT ADJUSTMENT

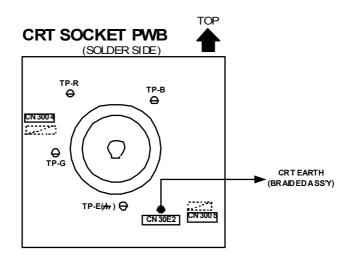
- INPUT LEVEL check
- SEPARATION adjustment

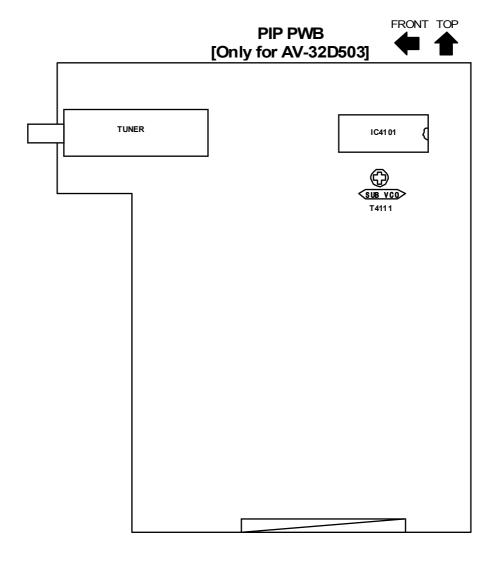
### **ADJUSTMENT LOCATIONS**











### BASIC OPERATION OF SERVICE MENU

### 1. TOOL OF SERVICE MENU OPERATION

Operate the SERVICE MENU with the REMOTE CONTROL UNIT.

### 2. SERVICE MENU ITEMS

With the SERVICE MENU, various settings (adjustments) can be made, and they are broadly classified in the following items of adjustments.

(1) V/C(S) · · · · · · VIDEO / CHROMA related circuit adjustment mode
(2) DEFLECTION(D) · · · · · DEFLECTION related circuit adjustment mode
(3) SOUND(A) SOUND related circuit adjustment mode
(4) OTHERS(F) · · · · · Whole system related items adjustment mode
(5) PIP(PIP)[Only for AV-32D503] · · · · PIP related circuit adjustment mode
(6) 3L Y/C(LYC) ······ 3 line YC separation related circuit adjustment mode
(7) LOW LIGHT White balance of "LOW LIGHT" adjustment mode
(8) HIGH LIGHT White balance of "HIGH LIGHT" adjustment mode
(9) RF AFC ····· RF AFC related circuit adjustment mode
10) VCO ····· VCO related circuit adjustment mode
11) I <sup>2</sup> C BUS ····· l <sup>2</sup> C bus related circuit adjustment mode [Fixed on]
12) SYSTEM(SYS)····· This mode is used when setting up the whole system.

### 3. BASIC OPERATION OF SERVICE MENU

### (1) How to enter SERVICE MENU

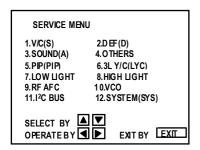
Press the **SLEEP TIMER** key and set the **SLEEP TIMER** for **[0 MIN]**.

Then press the **DISPLAY** key and the **VIDEO STATUS** key of the remote control unit simultaneously, and the SERVICE MENU screen will be displayed as shown below.

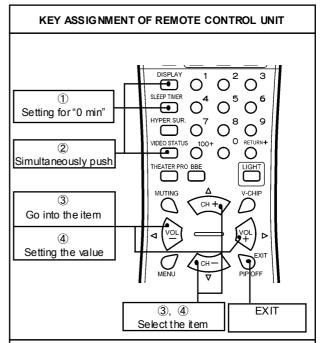
### (2) Selection of SUB MENU SCREEN

In SERVICE MENU, press the **CURSOR**  $\triangle/\nabla$  key to select any of the SUB MENU items. (The letters of the selected items are displayed in yellow)

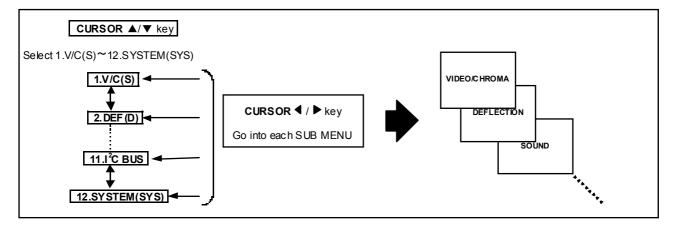
If an item like to set up becomes yellow, the **CURSOR** ◀ / ▶ key will be pushed and it will go into the mode.



### **SERVICE MENU**

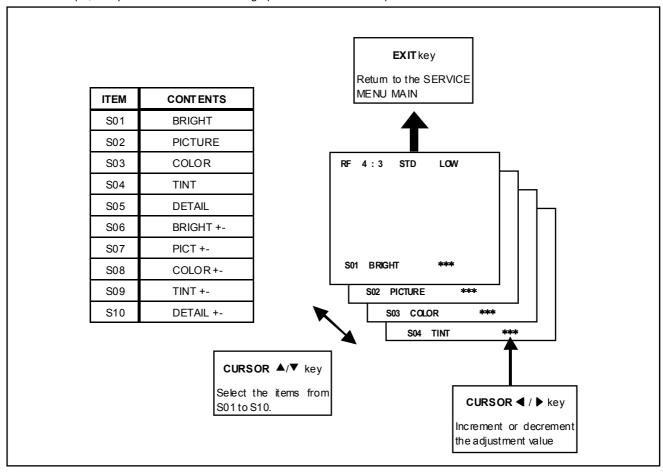


Although this illustration of remote control unit is written about RM-C251 (AV-32D503), it can use for operating RM-C252 (AV-32D303, 203) as same key assignment



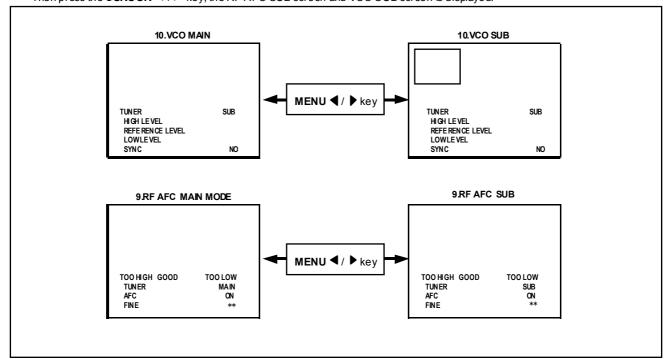
### (3) Method of Setting

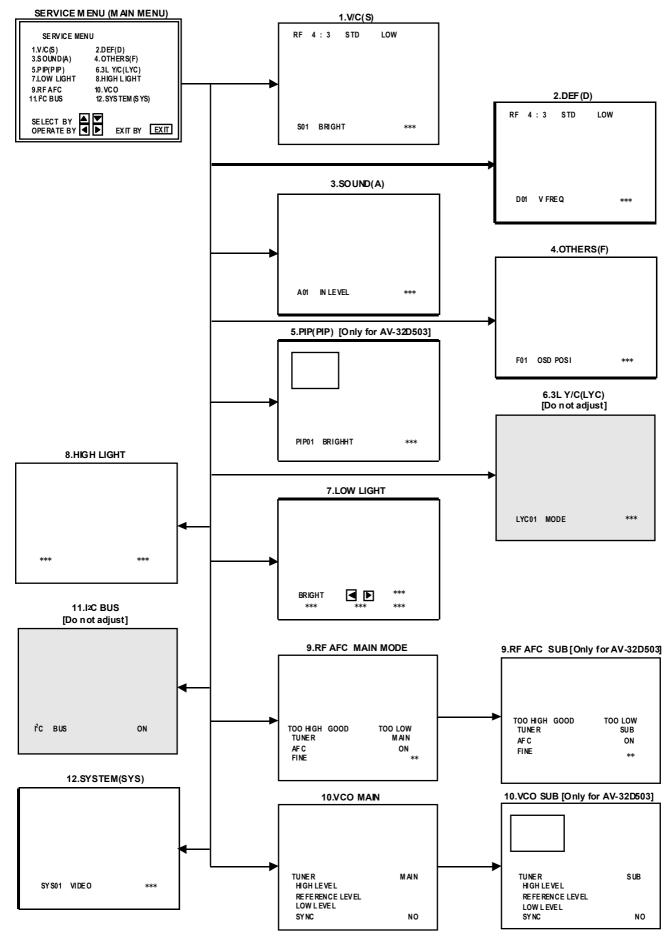
For example, the operation in the case of setting up VIDEO/CHROMA is expressed below.



### (4) Others [Only for AV-32D503]

If go into the 9.RF AFC and 10.VCO items, there will be display the RF AFC MAIN screen and VCO MAIN screen. Then press the **CURSOR** ◀ / ▶ key, the RF AFC SUB screen and VCO SUB screen is displayed.





### INITIAL SETTING VALUE OF SERVICE MENU

- 1. Adjustment of the SERVICE MENU is made on the basis of the initial setting values; however, the new setting values which set the screen in its optimum condition may differ from the initial setting.
- 2. Do not change the initial setting values not listed in "ADJUSTMENT".

### V / C(S) MODE

No	Setting item	Variable range	RF		S-VIDEO COMPOSITE VIDEO
		- Tunius o Tunigo	STANDARD	THEATER	STANDARD
S01	BRIGHT	0~127	64		
S02	PICTURE	0~127	55		
S03	COLOR	0~127	55		
S04	TINT	0~127	64		
S05	DETAIL	0~63	37		35
S06	BRIGHT +-	-32~+32		+1	-2[503]/ ±0[303, 203]
S07	PICT+-	-32~+32		-10	±0
S08	COLOR+-	-32~+32		-3	-2
S09	TINT+-	-32~+32		-3	+2
S10	DETAIL+-	-32~+32		±0	

			COMPONENT INPUT / STANDARD		
No	Setting item	Variable range	AV-32 D503 /Y AV-32 D303 /Y AV-32 D203 /Y	AV -32 D5 03 /R AV -32 D3 03 /R AV -32 D2 03 /R	AV -32 D5 03 /M AV -32 D3 03 /M AV -32 D2 03 /M
S03	COLOR	0~127	58	62	62
S04	TINT	0~127	78	68	70
S05	DETAIL	0~63	40	40	40
S06	BRIGHT +-	-32~+32	-1 [503] / -3 [303, 203]	-1 [503] / -3 [303, 203]	-1 [503] / -3 [303, 203]
S07	PICT+-	-32~+32	±0	±0	±0

			RF/S	-VIDEO / CO	OMPOSITE '	VIDEO		COMPONENT INPUT			
No	Setting item	Variable range	STAN	DARD	THE	ATER	STAN	DARD	THEATE	R	
			LOW	HIGH	LOW	HIGH	LOW	HIGH	LOW	HIGH	
S11	R CUT OFF	0~255	30								
S12	G CUT OFF	0~255	30								
S13	B CUT OFF	0~255	30					-		-	
S14	R DRIVE	0~127	64								
S15	B DRIVE	0~127	64					-		-	
S16	R CUT+-	-128~+127		±0	±0	±0	-10			-	
S17	G CUT+-	-128~+127		±0	±0	±0	±0	-		-	
S18	B CUT+-	-128~+127		±0	±0	±0	-10			-	
S19	R DRV+-	-128~+127		+5	+13	+7	±0	-		-	
S20	B DRV+-	-128~+127		+6	-25	-9	±0	-		-	
S21	NTSC MAT	0~3	3	3	1	1	2	2	1	1	
S22	BLACKST	0~3	1		1						
S23	DCREST	0~1	1		1						
S24	DCRSW	0~1	1		1						

No	Setting item	Variable range	RF	S-VIDEO COMPOSITE VIDEO	COMPONENT INPUT
S25	ASY SHRP	0~7	5	4	4
S26	BPFFO	0~1	0	0	
S27	KILR OFF	0~1	0	0	
S28	KILR SEN	0~1	1	1	

No	Setting item	Variable range	Initial setting value	No	Setting item	Variable range	Initial setting value
S29	RGB MUTE	0~1	0	S39	YMUTE	0~1	0
S30	BLUE B	0~1	0	S40	SVMGAIN	0~3	0
S31	VIDEO SW	0~3	3	S41	SVMPH	0~3	0
S32	CMP ABCL	0~1	0	S42	WPL	0~1	0
S33	OSD ABL	0~1	0	S43	COL GMM	0~1	0
S34	OSD CONT	0~63	10	S44	V1 GAIN	0~7	4
S35	SUB CONT	0~15	8	S45	AGC ADJ	0~127	63
S36	ABL GAIN	0~3	0	S46	VMOFF DE	-128~+127	±0
S37	ABLPNT	0~3	3	S47	APCCLK	0~1	1
S38	YGAMMA	0~3	1				

### SOUND MODE

No	Setting item	Variable range	Initial setting value	No	Setting item	Variable range	Initial setting value
A01	IN LEVEL	0~15	10	A04	SAPC	0/1	0
A02	LOW SEP	0~63	32	A05	BBEBASS	-128~+127	+3
A03	HISEP	0~63	32	A06	BBETRE	-128~+127	-4

### 3L Y / C MODE (Do not adjust)

No	Variable range	Initial setting value	No	Variable range	Initial setting value
LYC01	0~7	4	LYC07	0~1	1
LYC02	0~7	1	LYC08	0~3	0
LYC03	0~1	0	LYC09	0~1	1
LYC04	0~1	0	LYC10	0~1	0
LYC05	0~15	2	LYC11	0~1	0
LYC06	0~1	0	LYC12	0~1	0

### DEF MODE

No	Setting item	Variable range	AV-321	D5 03 /Y D3 03 /Y D2 03 /Y	AV -32 I	D503 /R D303 /R D203 /R	AV-321	D5 03 /M D3 03 /M D2 03 /M
			RF	S-VIDEO COMPOSITE	RF	S-VIDEO COMPOSITE	RF	S-VIDEO COMPOSITE
D01	V FREQ	0~3	0	3	0	0	0	0
D02	AFC GAIN	0~3	0	2	0	0	0	0
D03	H POSI	0~31	16	16	16	16	16	16
D04	H POSI+-	-128~+127						
D05	VPHASE	0~7	0	0	0	0	0	0
D06	VPH+-	-128~+127						
D07	VSIZE	0~+127	70	70	70	70	70	70
D08	V SIZE+-	-128~+127						
D09	V CENTER	0~63	32	32	32	32	32	32
D10	V CENT+-	-128~+127						
D11	VS CORR	0~15	5	5	5	5	5	5
D12	VS CO+-	-128~+127						
D13	VLIN	0~15	12	12	12	12	12	12
D14	VLIN+-	-128~+127						
D15	H SIZE	0~63	32	32	32	32	32	32
D16	H SIZE+-	-128 <b>~</b> +127						
D17	WVMT TOP	0~3	0	0	0	0	0	0
D18	WVMT BTM	0~3	0	0	0	0	0	0
D19	EWCR TOP	0~31	12	12	12	12	12	12
D20	EWCR T+-	-128 <b>~</b> +127						
D21	EWCR BTM	0~31	15	15	15	15	15	15
D22	EWCR B+-	-128 <b>~</b> +127						
D23	EW PARA	0~63	36	36	36	36	36	36
D24	EW PARA+-	-128 <b>~</b> +127						
D25	VEHT	0~7	0	0	0	0	0	0
D26	VEHT+-	-128 <b>~</b> +127						
D27	H EHT	0~7	0	0	0	0	0	0
D28	H EHT+-	-128 <b>~</b> +127	0		0	0	0	0
D29	TRAPEZ	0~63	35	35	35	35	35	35
D30	TRAPEZ+-	-128~+127						
D31	VAGC	0~1	0	0	0	0	0	0
D32	BLANK SW	0~1	0	0	0	0	0	0
D33	VRMP BI	0~1	0	0	0	0	0	0

AV-32D503 AV-32D303 AV-32D203

### OTHERS MODE

No	Variable range	Initial setting value	No	Variable range	Initial setting value
F01	0~15	37	F15	0~63	0
F02	0~15	90	F16	0~63	10
F03	0~15	45	F17	0~63	20
F04	0~15	93	F18	0~255	2
F05	0~63	7	F19	-128~+127	+8
F06	0~1	0	F20	-128~+127	-4
F07	0~63	2	F21	-128~+127	-10
F08	0~2	0	F22	-128~+127	-16
F09	0~255	5	F23	0~1	0
F10	0~255	5	F24	0~2	0
F11	0~255	16	F25	0~255	255
F12	0~63	32	F26	0~255	40
F13	0~255	3	F27	0~255	15
F14	0~255	5	F28	0~1	1

### PIP MODE

No	Setting item	Variable range	Initial setting value	No	Setting item	Variable range	Initial setting value
PIP01	BRIGHT	0~15	0	PIP28	MAT	0~1	1
PIP02	PICTURE	0~75	30	PIP29	YCOR	0~1	1
PIP03	TINT	0~63	42	PIP30	XFREQF	0~1	1
PIP04	COLOR	0~15	6	PIP31	WTCHDG	0~1	1
PIP05	R CUTOFF	0~15	0	PIP32	COLON	0~1	0
PIP06	G CUTOFF	0~15	0	PIP33	ACQNEW	0~1	0
PIP07	B CUTOFF	0~15	0	PIP34	DSTDET	0~1	1
PIP08	R DRIVE	0~255	63	PIP35	CRIBEOK	0~1	0
PIP09	G DRIVE	0~255	65	PIP36	FCBEOK	0~1	0
PIP10	B DRIVE	0~255	65	PIP37	NOCRID	0~1	0
PIP11	LPOSI	0~255	22	PIP38	NONSED	0~1	0
PIP12	R POSI	0~255	15	PIP39	PIP ADJ	0~15	5
PIP13	UPR POSI	0~127	12	PIP40	BRIEXT	-128~+127	0
PIP 14	LWR POSI	0~127	11	PIP41	PCT EXT	-128~+127	0
PIP15	PICT LCK	0~1	1	PIP42	TNT EXT	-128~+127	0
PIP16	SELDEL	0~15	0	PIP43	COR EXT	-128~+127	0
PIP17	AGCFIX	0~1	1	PIP44	R-D EXT	-128~+127	0
PIP18	AGCADST	0~1	0	PIP45	G-D EXT	-128~+127	0
PIP 19	AGC	0~15	7	PIP46	B-D EXT	-128~+127	0
PIP20	BLKINVB	0~1	0	PIP47	BRT COMP	-128~+127	0
PIP21	BLKINVR	0~1	0	PIP48	PCT COMP	-128~+127	0
PIP22	VSPDEL	0~31	0	PIP49	TNT COMP	0~63	40
PIP23	VSPISQ	0~1	1	PIP50	COR COMP	0~15	5
PIP24	RGBIN	0~1	0	PIP51	R-D COMP	-128~+127	0
PIP25	FRSEL	0~1	1	PIP52	G-D COMP	-128~+127	0
PIP26	OUTFOR	0~1	0	PIP53	B-D COMP	-128~+127	0
PIP27	UVPOLAR	0~1	0				

### **ADJUSTMENTS**

### **BASIC ADJUSTMENT**

Item	Measuring instrument	Test point	Ad justment part	Description
Check of B1 power supply	DC Voltmeter	1: TP-91 3: TP-E( ±) B1 connector		<ol> <li>Receive the black and white signal. (color off)</li> <li>Connect the DC voltmeter to B1 connector 1 pin (TP-91) and TP-E(か).</li> <li>Confirm that the voltage is DC134V±2V.</li> </ol>
REFE	LEVEL RENCE LEVB	MAIN NO	VCO (MAIN) [SERVICE MENU]  CW TRANSF. [MAIN PWB]	<ul> <li>Under nomal conditions, no adjustment is required. And it mus not adjust without signal.</li> <li>1. Receive the NTSC broadcast.</li> <li>2. Select the 10 VCO mode from the SERVICE MENU.</li> <li>3. It checks that turn the CW TRANSF. and the character of "HIGH LEVEL" changes the color.</li> <li>4. Next, it check that turn the CW TRANSF. on the contrary and the color of "LOW LEVEL" changed.</li> <li>5. At this time, it checks that "SYNC" is "YES".</li> <li>6. Turn the CW TRANSF. and it is made for the character of "REFERENCE LEVEL" to become green. Again, it checks that "SYNC" is "YES".</li> </ul>
SUB VCO adjustment Only for AV-32 D503	Remote control unit		VCO (SUB) [SERVICE MENU] SUB CW TRANSF. [PIP PWB]	<ul> <li>Under nomal conditions, no adjustment is required. And it must not adjust without signal.</li> <li>Receive the NTSC broadcast.</li> <li>Push the PIP key on the remote control unit. And display an broadcast program in the PIP screen that difference from MAI screen.</li> <li>Select the 10 VCO mode and switch the SUB mode by pressin the CURSOR ◀ / ▶ key.</li> <li>It checks that turn the SUB CW TRANSF, and the character of "HIGH LE VEL" changes the color.</li> </ul>
REFE	ILEVEL FRENCE LEVEL	SUB NO	GREEN	<ol> <li>Next, it check that turn the SUB CW TRANSF. on the contrar and the color of "LOW LEVEL" changed.</li> <li>At this time, it checks that "SYNC" is "YES".</li> <li>Turn the SUB CW TRANSF. and it is made for the character of "REFERENCE LEVEL" to become green. Again, it checks that "SYNC" is "YES".</li> </ol>

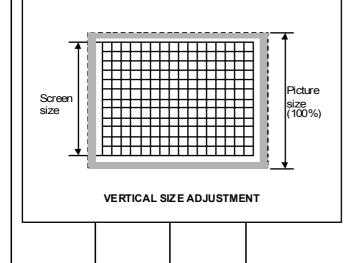
Item	Measuring instrument	Test point	Ad justment part	Des	cription	
RF AGC adjustment Control unit S45 AGC ADJ [V/C(S) mode]		<ol> <li>Enter to the V/C(S) mode from SERVICE MENU.</li> <li>Select the S45 AG C ADJ item.</li> <li>Press the MUTING key and turn the color to off.</li> <li>With the CURSOR          <ul> <li>key to get the noise in the screen picture (zero side of setting value).</li> </ul> </li> <li>Press the CURSOR          <ul> <li>key several times and step when noise disappears from the screen. At this time, not to increase the value too much.</li> </ul> </li> <li>Change to other channels and make sure that there is no irregularity.</li> <li>Press the MUTING key and get color out.</li> </ol> Variable range Initial setting value				
			Ad justment item	Variable range	Initial setting value	
			S45 AG C ADJ	0~127	63	
FOCUS adjustment	Signal generator		FOCUS VR [In FBT]	_	adjust the FOCUS VR to the vertica	
					lear and make fine in a detail. in focus even when the screen gets	
		Clear and f	ine			

### **DEFLECTION CIRCUIT ADJUSTMENT**

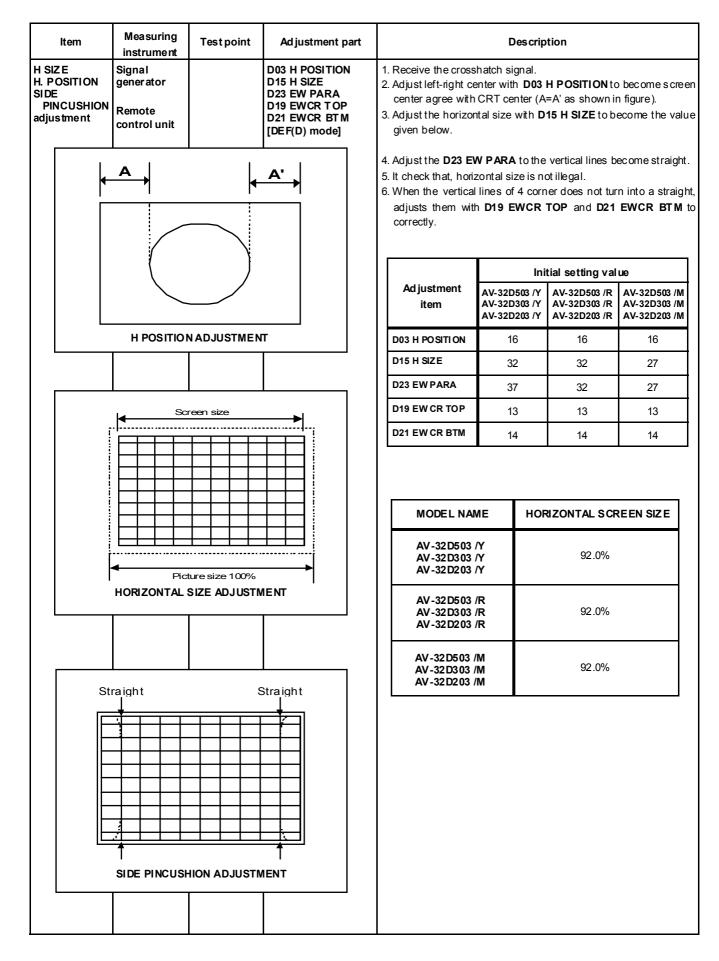
The setting (adjustment) using the remote control unit is made on the basis of the initial setting values.

The setting values which adjust the screen to the optimum condition can be different from the initial setting values.

ltem	Measuring instrument	Test point	Ad justment	part		Des cription	1	
V. CENTER V. SIZ E adjustment	Signal generator Remote control unit		D05 V PHASE D07 V SIZE [DEF(D) mode V. CENTER SI [MAIN PWB]	]	3. Select the D05 PHASE is 0. 4. Adjust the V. 0 with the CRT v 5. Then adjust th	EF(D) mode from SER S V PHASE, and it che CENTER SW to becon ertical center. e D07 V SIZE to the venter below table (bottor	RVICE MENU.  ecks that the value of one the signal center overtical screen size be not screen is to be to	agree ecome
					Ir	itial setting value		Ī
		Ad ji	ustment item	A	V-32D503 /Y V-32D303 /Y V-32D203 /Y	AV-32 D5 03 /R AV-32 D3 03 /R AV-32 D2 03 /R	AV-32 D5 03 /M AV-32 D3 03 /M AV-32 D2 03 /M	
		D05	V PHASE V SIZE		0	0	0	
		D07			70	70	70	



MODEL NAME	VERTICAL SCREEN SIZE
AV-32D503 /Y AV-32D303 /Y AV-32D203 /Y	92.0%
AV-32D503 /R AV-32D303 /R AV-32D203 /R	92.0%
AV-32D503 /M AV-32D303 /M AV-32D203 /M	92.0%



### **VIDEO / CHROMA CIRCUIT ADJUSTMENT**

The adjustment using the remote control unit is made on the basis of the initial setting values.

 $The setting \ values \ which \ adjust the \ screen \ to \ the \ optimum \ condition \ can \ be \ different \ from \ the \ initial \ setting \ values.$ 

Do not change the initial setting values not listed in "ADJUSTMENT".

ltem	Measuring instrument	Test point	Ad justment item	De	escription	
L	Signal generator Remote control unit  BRIGHT *** ***  LOW LIGHT adjust	*** *** stment mode	LOW LIGHT BRIGHT (S01) [SERVICE MENU]  R CUTOFF (S11) G CUTOFF (S12) B CUTOFF (S13)  SCREEN VR [In HVT]	1. Receive a black and wh 2. Select the LOW LIGHT I 3. Confirm the initial setting 4. Confirm the initial setting 5. If they are differ, set the initial setting value in the 6. Display a single horizon remote control unit. 7. Turn the screen VR all the streen VR graeither one of the red, blue 9. Use keys (4~9) of the other 2 colors which excesingle horizontal line appears of the screen VR to we faintly. 11. Press the (2) key to release the shines white slightly. 12. Adjust the BRIGHT leves shines white slightly. 13. Confirm that whether the visible to the black composition of the color ingredie a visible color are adjusted to the value of BRIGHT leves the (3) key to exist the lack of the press the (3) key to exist the lack of the lack	MODE from the gradual of BRIG and all line by pressions where the appearears white.  Where the single is as either the become the color ingression, and it is made GHT to initial segments.	SERVICE MENU. HT. CUTOFF, G CUTOFF and S13 to the correct sing the ① key of the ft. ight from the left unti s appears faintly. of unit and adjust the ed color to where the e horizontal line glows horizontal line. the black component lient of R, G or B is ines white slightly. two colors other than le to look white. etting value.
	Remote Co	ntrol Unit	<u> </u>	Ad justment item	Variable range	Initial setting value
Н.	LINE ON H.LIN	E OFF EXI	Т	BRIGHT	0~127	64
	CUTOFF  G CU	6	OFF▼	CUTOFF ADJUSTMENT  R CUT OFF (S11)  G CUT OFF (S12)  B CUTOFF (S13)	Variable range  0 ~255  0 ~255  0 ~255	Initial setting value  30  30  30

Item	Measuring instrument	Test point	Ad justment item		De	escription	
WHITE BALANCE (High Light) adjustment	Signal generator  Remote control unit  ***  HIGH LIGHT  ADJUSTMENT  DRIVE (S14)  DRIVE (S15)	***  Tadiustment  Variable range  0 ~ 127  0 ~ 127	HIGH LIGHT [SERVICE MENU]  R DRIVE (S14) B DRIVE (S15)  Initial setting value 64 64 64 S01 BRIGHT	2. Self 3. Cold 4. If the set 5. Adj key  Who don 1. Rec 2. Self 4. Cor 5. If the male	ceive the NTSC black a cet the HIGH LIGHT must be initial setting whey are differ, set the ting value in the 1 V/C() cust the screen color to sof the remote control to the setting value in the 1 V/C() and the screen color to sof the remote control to the remote control to the provided H.LINE ON H. The p	and white signal tode in the SERValue of "G DRIVE S14 and S15 S) mode.  To white with the unit.  The Control Unit of the Service Signal Service In the Servi	VICE MENU.  /E" and "B DRIVE".  to the correct initial  le (4), (6), (7) and (9)  EXIT  BRIVE   Adjustment should be of the correct initial setting value, and the correct initi
				BR	IGHT ADJUSTMENT	Variable range	Initial setting value
					S01 BRIGHT	0 ~ 127	64
SUB CONT RAST adjustment	Remote control unit		S02 PICT URE	<ol> <li>Red</li> <li>Seld</li> <li>Cor</li> <li>If the fine</li> </ol>	ect <b>S02 PICTURE</b> of the firm the initial setting vector of the both setting to the bo		

Item	Measuring instrument	Test point	Ad justment part		C	Description		
SUB COLOR adjustment	Remote control unit		S03 COLOR [V/C(S) mode]	[ Method of adjustment without measuring instrument ]				
				2. 3. 4.	If the color is not the best			
					Ad justment item	Initial setting value		
					S03 COLOR	55		
	a: .		200 201 20	<u> </u>				
	Signal generator Os cill oscope Remote control unit	TP-B TP-E(#) [CRT SOCKET PWB]	S03 COLOR [V/C(S) mode]	1. 2. 3. 4. 5. 6. 7. 8.	Input the full color bar significant the 9 RF AFC modern to MENU.  Select the 1 V/C(S) modern to Select S03 COLOR of the Confirm the initial setting Connect the oscilloscope Adjust S03 COLOR and I	off, and exit to the SERVICE MAII e from SERVICE MENU. e V/C(S) mode. value of the S03 COLOR given above between TP-B and TP-E. bring the value of (A) in the illustration in the table bellow (voltage difference). IN MENU. de.		
			(—)		MODEL NAME	Voltage difference [V]		
w	Су	<u>-</u>	† (A)		AV-32 D5 03 /Y AV-32 D3 03 /Y AV-32 D2 03 /Y	+20V		
		∭ B Mg	(+)		AV-32 D5 03 /R AV-32 D3 03 /R AV-32 D2 03 /R	+18V		
					AV-32D503 /M AV-32D303 /M AV-32D203 /M	+20V		

ltem	Measuring instrument	Test point	Ad justment part	Des	cription
SUB TINT adjus tment	Remote control unit		S04 TINT [V/C(S) mode]		om SERVICE MENU. S) mode.
				Ad justment item	Initial setting value
				S04 TINT	64
	Signal generator Os cill oscope Remote control unit	TP-B TP-E(♣) [CRT SOCKET PWB]	S04 TINT [V/C(S) mode]	<ol> <li>Select the 1 V/C(S) mode fr</li> <li>Select S04 TINT of the V/C(</li> <li>Confirm the initial setting va</li> <li>Connect the oscilloscope be</li> <li>Adjust S04 TINT and bring</li> </ol>	I includes the 75% white. from SERVICE MENU. d exit to the SERVICE MAIN MENU. om SERVICE MENU. S) mode. lue of the <b>S04 TINT</b> given above. etween TP-B and TP-E. the value of <b>(B)</b> in the illustration to table bellow (voltage difference a). MENU.
	Y G		۲	MODEL NAME	Voltage diference [V]
		R		AV-32D503 /Y AV-32D303 /Y AV-32D203 /Y	+12V
w	Су		( ) 0V = (B)	AV-32 D5 03 /R AV-32 D3 03 /R AV-32 D2 03 /R	+2V
		M g	(+)	AV-32 D5 03 /M AV-32 D3 03 /M AV-32 D2 03 /M	+4V
			( <del>+</del> )	AV-32 D3 03 /M	+4V

Item	Measuring instrument	Test point	Ad justment part		Desc	cription
PIP WHITE BALANCE adjustment (HIGH LIGHT)	Signal generator Remote control unit		PIP08 R DRIVE PIP10 B DRIVE [PIP(PIP) mode]	2. 3. 4.	Confirm the initial setting valued Adjust the PIP08 R DRIVE, becomes white.	SERVICE MENU. PIP10 B DRIVE of the PIP mode. Les of PIP08 and PIP10. PIP10 B DRIVE until the screen
					Adjustment item	Initial setting value 63
					PIP 10 B DRIVE	65
PIP DISPLAY POSITION adjustment	Signal generator Remote control unit		PIP11 L POSI PIP12 R POSI PIP13 UPR POSI PIP14 LWR POSI [PIP(PIP) mode]	2. 3. 4.	LWR POSI. Adjust the PIP11 ~ PIP14	SERVICE MENU.
Ad just	ment position		ment value [ reen size		Ad justment item	Initial setting value
UPP	ER WIDTH		80%		PIP11 L POSI	22
LOV	ER WIDTH		80%		PIP12 R POSI	15
LEF	T WIDT H		80%		PIP13 UPR POSI	12
RIGI	HT WIDTH		80%		PIP14 LWR POSI	11
	92% H SIZE	adjustment valu	e -			

92% V SIZE adjustment value - 80% -

### MTS CIRCUIT ADJUSTMENT

Item	Measuring instrument	Test point	Ad justment part	Description		cription
MTS INPUT LEVEL check	Remote control unit		A01 IN LEVEL [SOUND(A) mode]	Select the A01 IN LEVEL of the SOUND mode.     Verify that the A01 IN LEVEL is set at its initial setting		
					Ad justment item	Initial setting value
					A01 IN LEVEL	10
MTS SEPARATION adjustment	TV audi o multiplex signal generator Os cill oscope Remote control unit	R OUT L OUT [AUDIO OUT]	A02 LOW SEP A03 HI SEP	2. 3. 4. 5.	signal generator to the anter Connect an oscilloscope to display one cycle portion of Select the A02 LOW SEP of Confirm the initial setting val Adjust the A02 LOW SEP 300Hz signal will become manage the connection of the AUDIO OUT, and enlarge the	R OUT pin of the AUDIO OUT, at the 300Hz signal. If the SOUND MODE. It end of the A02 LOW SEP. So that the stroke element of the inimum. The oscilloscope to LOUT pin of the the stroke of the oscilloscope to LOUT pin of the the stroke of the stroke of the stroke of the content of the stroke of th
L-Char		R-Cha			Ad justment item	Initial setting value
signal v	waveform	•	alk portion		A02 LOW SEP	32
1 cycle		Minimum			A03 HIGH SEP	32

### HOW TO CHECK THE HIGH VOLTAGE HOLD DOWN CIRCUIT

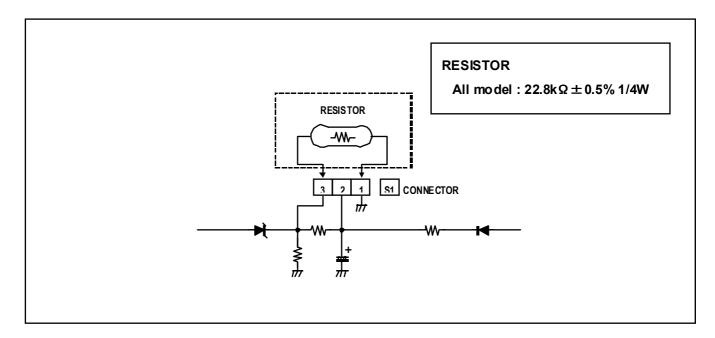
### 1. HIGH VOLTAGE HOLD DOWN CIRCUIT

After repairing the high voltage hold down circuit.

This circuit shall be checked to operate correctly.

### 2. CHECKING OF THE HIGH VOLTAGE HOLD DOWN CIRCUIT

- (1) Turn the power switch on.
- (2) As shown in figure, set the resistor (between [S1] connector [2] and [3]).
- (3) Make sure that the screen picture disappears.
- (4) Temporarily unplug the power plug.
- (5) Remove the resistor (between [S1] connector [2] and [3]).
- (6) Again plug the power plug, make sure that the normal picture is displayed on the screen.



### REPLACEMENT OF CHIP COMPONENT

### **■ CAUTIONS**

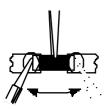
- 1. Avoid heating for more than 3 seconds.
- 2. Do not rub the electrodes and the resist parts of the pattern.
- 3. When removing a chip part, melt the solder adequately.
- 4. Do not reuse a chip part after removing it.

### **■ SOLDERING IRON**

- 1. Use a high insulation soldering iron with a thin pointed end of it.
- 2. A 30w soldering iron is recommended for easily removing parts.

### ■ REPLACEMENT STEPS

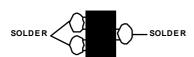
- 1. How to remove Chip parts
- ♦ Resistors, capacitors, etc
  - (1) As shown in the figure, push the part with tweezers and alternately melt the solder at each end.



(2) Shift with tweezers and remove the chip part.



- ♦ Transistors, diodes, variable resistors, etc
  - (1) Apply extra solder to each lead.



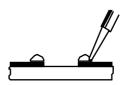
(2) As shown in the figure, push the part with tweezers and alternately melt the solder at each lead. Shift and remove the chip part.



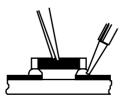
Note: After removing the part, remove remaining solder from the pattern.

### 2. How to install Chip parts

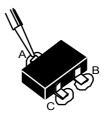
- Resistors, capacitors, etc
  - (1) Apply solder to the pattern as indicated in the figure.



(2) Grasp the chip part with tweezers and place it on the solder. Then heat and melt the solder at both ends of the chip part.



- ♦ Transistors, diodes, variable resistors, etc
  - (1) Apply solder to the pattern as indicated in the figure.
  - (2) Grasp the chip part with tweezers and place it on the solder.
  - (3) First solder lead **A** as indicated in the figure.



(4) Then solder leads **B** and **C**.



# **PARTS LIST**

### **CAUTION**

- The parts identified by the △ symbol are important for the safety. Whenever replacing these parts, be sure to use specified ones to secure the safety.
- The parts not indicated in this Parts List and those which are filled with lines in the Parts No. columns will not be supplied.
- P. W. Board Ass'y will not be supplied, but those which are filled with the Parts No. in the Parts No. columns will be supplied.

### ABBREVIATIONS OF RESISTORS, CAPACITORS AND TOLERANCES

	RESISTORS	CAPACITORS		
CR	Carbon Resistor	C CAP.	Ceramic Capacitor	
FR	Fusible Resistor	ECAP.	Electrolytic Capacitor	
PR	Plate Resistor	M CAP.	Mylar Capacitor	
VR	Variable Resistor	HV CAP.	High Voltage Capacitor	
HVR	High Voltage Resistor	MF CAP.	Metalized Film Capacitor	
MF R	Metal Film Resistor	MM CAP.	Metalized Mylar Capacitor	
MG R	Metal Glazed Resistor	MP CAP.	Metalized Polystyrol Capacitor	
MP R	Metal Plate Resistor	PP CAP.	Polypropylene Capacitor	
OM R	Metal Oxide Film Resistor	PS CAP.	Polystyrol Capacitor	
CMF R	Coating Metal Film Resistor	TF CAP.	Thin Film Capacitor	
UNF R	Non-Flammable Resistor	MPP CAP.	Metalized Polypropylene Capacitor	
CHVR	Chip Variable Resistor	TAN. CAP.	Tantalum Ca pacitor	
CH MG R	Chip Metal Glazed Resistor	СН С САР.	Chip Ceramic Capacitor	
COMP. R	Composition Resistor	BP E CAP.	Bi-Polar Electrolytic Capacitor	
LPTC R	Linear Positive Temperature Coefficient Resistor	CH AL E CAP.	Chip Aluminum Electrolytic Capacitor	
		CH AL BP CAP.	Chip Aluminum Bi-Polar Capacitor	
		CH TAN. E CAP.	Chip Tantalum Electrolytic Capacitor	
		CH AL BP E CAP.	Chip Tantalum Bi-Polar Electrolytic Capacitor	

	TOLERANCES										
F	G	J	K	М	N	R	Н	Z	Р		
±1%	±2%	±5%	±10%	±20%	±30%	+30% -10%	+50% -10%	+80% -20%	+100% 0%		

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# **USING CRT, P.W. BOARD & REMOTE CONTROL UNIT**

P.W.B ASS'Y	AV-32D503/M	AV-32D 50 3/R	AV-32D 50 3/Y
CRT (IT C TUBE)	A80JUA061X06	A80AEJ15X01	A80AKB50X04
MAIN PWB	SGE-1021A-M2	SGE-1022A-M2	SGE-1003A-M2
CRT SOCKET PWB	SGE-3006A-M2	SGE-3007A-M2	SGE-3004A-M2
PIP PWB	SGE-4001A-M2	<b>←</b>	←
AV SELECTOR PWB	SGE-5001A-M2	<b>←</b>	←
FRONT AV IN PWB	SGE-6001A-M2	<b>←</b>	←
FRONT CONTROL PWB	SGE-7001A-M2	<b>←</b>	←
REMOTE CONTROL UNIT	RM-C251-1H	<b>←</b>	<b>+</b>

# [ AV-32D303 / AV-32D203 ]

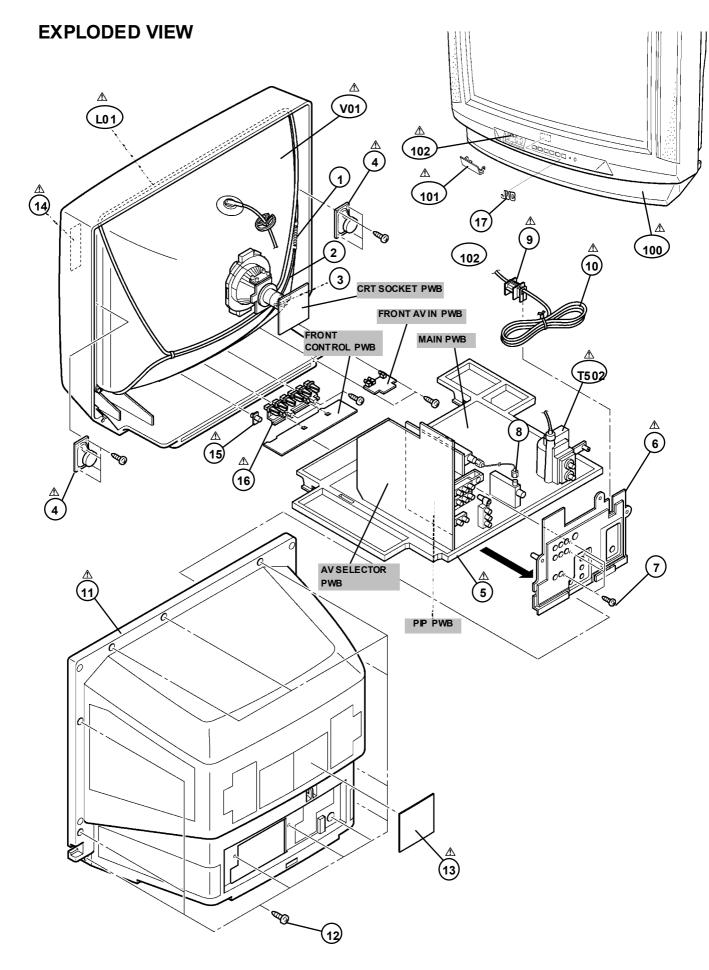
[ AV-32D303m , AV-32D203m ]         ● MAIN PW BOARD ASSY       60         ● CRT SOCKET PW BOARD ASSY       65         ● AV SELECTOR PW BOARD ASSY       65         ● FRONT AV IN PW BOARD ASSY       65         ● FRONT CONTROL PW BOARD ASSY       65         ■ MAIN PW BOARD ASSY       65         ● CRT SOCKET PW BOARD ASSY       66         ● AV SELECTOR PW BOARD ASSY       67         ● FRONT AV IN PW BOARD ASSY       67         ● FRONT CONTROL PW BOARD ASSY       67         ● FRONT CONTROL PW BOARD ASSY       67         ■ PACKING PW BOARD ASSY       77         ● FRONT AV IN PW BOARD ASSY       77         ● FRONT CONTROL PW BOARD ASSY       77         ● FRONT CONTROL PW BOARD ASSY       77         ● FRONT CONTROL PW BOARD ASSY       77         ● PACKING PARTS LIST       72         ■ PACKING PARTS LIST       72         ■ REMOTE CONTROL UNIT PARTS LIST       72	CONTENTS	
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P.W.B ASS'Y	AV-32D303/M AV-32D203/M	AV-32D303/R AV-32D203/R	AV-32D303/Y AV-32D203/Y
CRT (ITCTUBE)	A80JUA061X06	A80AEJ15X01	A80AKB50X04
MAIN PWB	SGE-1027A-M2	SGE-1028A-M2	SGE-1006A-M2
CRT SOCKET PWB	SGE-3006A-M2	SGE-3007A-M2	SGE-3004A-M2
PIP PWB	×	×	×
AV SELECTOR PWB	SGE-5001A-M2	<b>←</b>	←
FRONT AV IN PWB	SGE-6001A-M2	<b>←</b>	←
FRONT CONTROL PWB	SGE-7001A-M2	<b>←</b>	<b>←</b>
REMOTE CONTROL UNIT	RM-C252-1H	←	<b>←</b>

# [ AV-32D503]

# **EXPLODED VIEW PARTS LIST**

[ AV-32D5	03/M, AV-32D503	3/R, <b>AV-32D503</b> /Y]	: SILVER
<u>∧</u> Ref.No.	Part No.	Part Name	Description
↑ V01 ↑ V01 ↑ V01 ↑ L01 ↑ T502 1 2 3	A 80 JU A0 6 1X 0 6 A 80 AE J1 5 X0 1 A 80 AK B5 0 X0 4 C EL D0 6 6 - 00 2 JA Q 0H 01 2 1 - 00 1 A 48 45 7 - 1 W JY 00 1 6 - 00 2 A W JY 00 1 3 - 00 4 A	ITC ITC ITC DEG COIL FB TRANSF SPRING E-BRAIDED ASSY E-BRAIDED ASSY(SUB)	[AV-32D503/M] Inc.DY.PC MAGNET,WEDGE [AV-32D503/R] Inc.DY.PC MAGNET,WEDGE [AV-32D503/Y] Inc.DY.PC MAGNET,WEDGE
△ 4 △ 5 △ 6 7 8 △ 9 △ 10	C EB SS 1 2D - 0 4 KJ 2 L C 1 08 8 3 - 00 1 C - A L C 2 08 9 9 - 00 4 A - A Q YS BS B 30 10 Z WJX 0014 - 00 2 A L C 2 0 1 0 6 - 00 1 D - A Q MP D 3 9 0 - 20 0 - J S	S PE AKE R C HASSIS BASE TERMINAL BOARD TAP S C REW E - COAXIAL ASSY P OWER CORD CLAMP P OWER CORD	or QAS0101-001(x2) SP01, SP02  (x4)  or QMPD200-200-JC Within MAIN PWB(CN0PW)
▲ 11  12	LC10308-003C-A  QYSBSFG4016Z GQ30032-001A-A GQ30034-001B-A LC30191-002A-A LC20217-005B-A CM48006-007-C LC10641-005B-A LC20409-005B-A	REAR COVER  TAP SCREW RATING LABEL WARNING LABEL REMOCON LENS CONTROL KNOB JVC MARK FRONT CABI.ASSY DOOR CATCHER	(×12)  Inc.No.101~102



# [ AV-32D503/M ]

# PRINTED WIRING BOARD PARTS LIST

### MAIN P.W. BOARD ASS'Y (SGE-1021A-M2)

Δ	Symbol No.	Part No.	Part Name	Description
	RES	ISTOR		
	R002 R003	NRSA63J-OROX NRSA63J-101X	MG R MG R	$0.0\Omega$ 1/16W J $100\Omega$ 1/16W J
	R004	NRSA63J-101X	MG R	100Ω 1/16W J
	R005	NRSA63J-OROX	MG R	0.0Ω 1/16W J
	R008	NRSA63J-820X	MG R	82Ω 1/16W J
	R009 R101	NRSA63J-682X NRSA63J-562X	MG R MG R	6.8kΩ 1/16W J 5.6kΩ 1/16W J
	R102	NRSA63J-182X	MG R	1.8kΩ 1/16W J
	R103	QRE121J-101Y	C R	$100^{\circ}_{\Omega}$ $1/2$ W J
	R104	NRSA63J-180X	MG R	18Ω 1/16W J
	R105 R111	NRSA63J-270X NRSA63J-394X	MG R MG R	27Ω 1/16W J 390kΩ 1/16W J
	R111	NRSA63J-334X	MG R	330kΩ 1/16W J
	R113	NRSA63J-101X	MG R	100 <sub>Ω</sub> 1/16W J
	R115	NRSA63J-101X	MG R	100Ω 1/16W J
	R116 R117	NRSA63J-680X NRSA63J-273X	MG R MG R	68Ω 1/16W J 27kΩ 1/16W J
	R117	NRSA63J-223X	MG R	22kΩ 1/16W J
	R131	NRSA63J-102X	MG R	1kΩ 1/16W J
	R132	NRSA63J-331X	MG R	330Ω 1/16W J
	R133 R134	NRSA63J-821X NRSA63J-561X	MG R MG R	820Ω 1/16W J 560Ω 1/16W J
	R135	NRSA63J-102X	MG R	1kΩ 1/16W J
	R161	NRSA63J-332X	MG R	3.3kΩ 1/16W J
	R162 R163	NRSA63J-OROX	MG R MG R	0.0Ω 1/16W J 22ko 1/16W J
	R164	NRSA63J-223X NRSA63J-102X	MG R	22kΩ 1/16W J 1kΩ 1/16W J
	R165	NRSA63J-223X	MG R	22kΩ 1/16W J
	R166	NRSA63J-103X	MG R	10kΩ 1/16W J
	R167 R168	NRSA63J-102X NRSA63J-101X	MG R MG R	1kΩ 1/16W J 100 <sub>Ω</sub> 1/16W J
	R169	NRSA63J-561X	MG R	560 <sub>Ω</sub> 1/16W J
	R171	NRSA63J-103X	MG R	10kΩ 1/16W J
	R201	NRSA63J-223X	MG R	22kΩ 1/16W J
	R212 R215	NRSA63J-272X NRSA63J-562X	MG R MG R	2.7kΩ 1/16W J 5.6kΩ 1/16W J
	R216	NRSA63J-562X	MG R	5.6kΩ 1/16W J
	R217	NRSA63J-102X	MG R	1kΩ 1/16W J
	R222	NRSA63J-OROX	MG R	0.0Ω 1/16W J
	R227 R231	NRSA63J-104X NRSA63J-182X	MG R MG R	100kΩ 1/16W J 1.8kΩ 1/16W J
	R237	NRSA63J-392X	MG R	3.9kΩ 1/16W J
	R238	NRSA63J-473X	MG R	47kΩ 1/16W J
	R241 R243	NRSA63J-332X NRSA63J-152X	MG R MG R	3.3kΩ 1/16W J 1.5kΩ 1/16W J
	R281	NRSA63J-182X	MG R	1.5kΩ 1/16W J 1.8kΩ 1/16W J
	R282	NRSA63J-392X	MG R	3.9kΩ 1/16W J
	R283	NRSA63J-681X	MG R	680Ω 1/16W J
	R286 R287	NRSA63J-472X NRSA63J-101X	MG R MG R	4.7kΩ 1/16W J 100Ω 1/16W J
	R288	NRSA63J-471X	MG R	470Ω 1/16W J
	R289	NRSA63J-154X	MG R	150kΩ 1/16W J
	R290	NRSA63J-561X	MG R	560Ω 1/16W J
	R292 R293	NRSA63J-124X NRSA63J-224X	MG R MG R	120kΩ 1/16W J 220kΩ 1/16W J
	R301	NRSA63J-222X	MG R	2.2kΩ 1/16W J
	R302	NRSA63J-222X	MG R	2.2kΩ 1/16W J
	R303 R304	NRSA63J-222X NRSA63J-101X	MG R MG R	2.2kΩ 1/16W J 100Ω 1/16W J
	R305	NRSA63J-101X	MG R	100Ω 1/16W J
	R306	NRSA63J-101X	MG R	$100\Omega$ $1/16W$ J
	R354	NRSA63J-OROX	MG R	0.0Ω 1/16W J
	R355 R356	NRSA63J-OROX NRSA63J-123X	MG R MG R	0.0 <u>Ω</u> 1/16W J 12kΩ 1/16W J
	R359	NRSA63J-103X	MG R	10kΩ 1/16W J
	R360	NCB31HK-103X	C_CAP.	0.01µF 50V K
	R421	NRSA63J-822X	MG R	8.2kΩ 1/16W J
	R423 R424	NRSA63J-393X NRSA63J-393X	MG R MG R	39kΩ 1/16W J 39kΩ 1/16W J
	R426	NRSA63J-183X	MG R	18kΩ 1/16W J
	R427	QRT029J-1R5	MF R	1.5Ω <b>2</b> W J

Δ	Symbol No.	Part No.	Part Name	Description
	RES	ISTOR		
	R432 R433	NRSA63J-101X NRSA63J-681X	MG R MG R	1000 1/16W J 6800 1/16W J
	R433	QRL029J-181	OM R	$680\Omega$ $1/16W$ J $180\Omega$ $2W$ J
	R435	QRE121J-102Y	C R	1kΩ 1/2W J
	R441 R447	NRSA63J-OROX NRSA63J-104X	MG R MG R	0.0Ω 1/16W J 100kΩ 1/16W J
	R448	NRSA63J-473X	MG R	47kΩ 1/16W J
	R449 R501	NRSA63J-103X NRSA63J-0ROX	MG R MG R	10kΩ 1/16W J 0.0Ω 1/16W J
	R502	NRSA63J-271X	MG R	270Ω 1/16W J
	R503 R504	QRE121J-103Y QRL039J-102	C R OM R	10kΩ 1/2W J 1kΩ 3W J
	R505	QRL039J-102	OM R	1kΩ 3W J
	R511 R512	QRE121J-220Y QRE121J-681Y	C R C R	22Ω 1/2W J 680Ω 1/2W J
	R523	QRJ 146J - 333X	C R	33kΩ 1/4w J
	R526 R527	QRE121J-272Y QRE121J-154Y	C R C R	2.7kΩ 1/2W J 150kΩ 1/2W J
	R528	QRE121J-154Y	CR	150kΩ 1/ <b>2</b> W J
	R529 R531	NRS <i>A</i> 63J-331X QRJ146J-391X	MG R C R	330Ω 1/16W J 390Ω 1/4W J
	R532	NRSA63J-273X	MG R	27kΩ 1/16W J
	R533 R534	NRSA63J-123X NRSA63J-123X	MG R MG R	12kΩ 1/16W J 12kΩ 1/16W J
Δ	R535	NRVA02D-222X	MF R	2.2kΩ 1/10W D
Δ	R537 R538	NRVAO2D-752X NRSA63J-333X	MF R MG R	7.5kΩ 1/10W D 33kΩ 1/16W J
	R543	QRE121J-122Y QRE121J-392Y	C R	1.2kΩ 1/2W J 3.9kΩ 1/2W J
	R544 R545	QRE121J-822Y	C R C R	3.9kΩ 1/2W J 8.2kΩ 1/2W J
	R546 R547	NRSA63J-331X NRSA63J-104X	MG R MG R	330Ω 1/16W J 100kΩ 1/16W J
	R548	QRE121J-152Y	C R	1.5kΩ 1/2W J
Δ	R553 R554	QRL039J-180 QRK126J-150X	OM R C R	18Ω 3W J 15Ω 1/2W J
ш	R555	QRX029J-3R3	MF R	3.3Ω 2W J
	R601 R602	NRSA63J-750X NRSA63J-750X	MG R MG R	75 <sub>Ω</sub> 1/16W J 75 <sub>Ω</sub> 1/16W J
	R603	NRSA63J-750X	MG R	75Ω 1/16W J
	R614 R615	NRSA63J-682X NRSA63J-332X	MG R MG R	6.8kΩ 1/16W J 3.3kΩ 1/16W J
	R621	NRSA63J-682X	MG R	6.8kΩ 1/16W J
	R622 R623	NRSA63J-681X NRSA63J-682X	MG R MG R	680Ω 1/16W J 6.8kΩ 1/16W J
	R624	NRSA63J-681X	MG R	680 <u>Ω</u> 1/16W J
	R626 R627	NRSA63J-223X NRSA63J-223X	MG R MG R	22kΩ 1/16W J 22kΩ 1/16W J
	R631 R632	NRSA63J-333X NRSA63J-223X	MG R MG R	33kΩ 1/16W J 22kΩ 1/16W J
	R638	NRSA63J-OROX	MG R	0.0Ω 1/16W J
	R639 R651	NRSA63J-OROX NRSA63J-OROX	MG R MG R	0.QΩ 1/16W J 0.QΩ 1/16W J
	R652	NRSA63J-OROX	MG R	0.0Ω 1/16W J
	R653 R655	NRSA63J-OROX NRSA63J-153X	MG R MG R	0.0Ω 1/16W J 15kΩ 1/16W J
	R700	NRSA63J-102X	MG R	1kΩ 1/16W J
	R701 R702	NRSA63J-103X NRSA63J-102X	MG R MG R	10kΩ 1/16W J 1kΩ 1/16W J
	R704	NRSA63J-472X	MG R	4.7kΩ 1/16W J
	R705 R706	NRSA63J-472X NRSA63J-472X	MG R MG R	4.7kΩ 1/16W J 4.7kΩ 1/16W J
	R707	NRS <i>A</i> 63J-103X	MG R	10kΩ 1/16W J
	R708 R709	NRSA63J-101X NRSA63J-101X	MG R MG R	100Ω 1/16W J 100Ω 1/16W J
	R714	NRSA63J-823X	MG R	82kΩ 1/16W J
	R715 R718	NRSA63J-103X NRSA63J-223X	MG R MG R	10kΩ 1/16W J 22kΩ 1/16W J
	R721	NRSA63J-102X	MG R	1kΩ 1/16W J
	R728 R729	NRSA63J-102X NRSA63J-223X	MG R MG R	1kΩ 1/16W J 22kΩ 1/16W J
	R731	NRSA63J-101X	MG R	100Ω 1/16W J

# [AV-32D503/M]

<u>∧</u> Symbol No	. Part No.	Part Name	Description		
R732 R733 R734 R737 R739 R740 R754 R755 R756 R766 R767 R769 R7772 R7775 R7776 R811 R812 R827 R857 A R858 A R901 A R911 R912 R913 R914 R915 R917 R918 R919 R924 R930 R939 R940 R941 R950 R951 R952 R953 R977 R978 R978 R977	NRSA63J-472X NRSA63J-472X NRSA63J-472X NRSA63J-472X NRSA63J-472X NRSA63J-103X NRSA63J-103X NRSA63J-103X NRSA63J-123X NRSA63J-221X NRSA63J-221X NRSA63J-221X NRSA63J-221X NRSA63J-221X NRSA63J-221X NRSA63J-221X NRSA63J-221X NRSA63J-103X NRSA63J-102X ORED2J-223Y ORED2J-223Y ORED2J-688 ORKD29J-330 ORED2J-223Y ORED2J-222Y ORED2J-222Y ORED2J-222Y ORED2J-222Y ORED2J-222Y ORED2J-222Y ORED2J-223Y ORED2J	MGG R R R R R R R R R R R R R R R R R R	100Ω 1/16W J 4.7kΩ 1/16W J 4.7kΩ 1/16W J 4.7kΩ 1/16W J 0.0Ω 1/16W J 10kΩ 1/16W J 15kΩ 1/16W J 15kΩ 1/16W J 220Ω 1/16W J 10kΩ 1/2W		
R999 QREI21J-121Y C R 1200 1/2W J					
C001 C003 C004 C006 C101 C102 C104 C105 C106 C107 C113 C114 C116 C117 C118 C119 C120 C124 C131	QETNLHM-475Z QETNLHM-106Z QETNLCM-108Z QETNLCM-108Z QETNLEM-476Z NCB31HK-103X NCB31HK-103X NCB31HK-103X QETNLEM-476Z NCB31HK-103X NCB31HK-103X NCB31HK-103X NCB31HK-103X NCB31HK-103X NCB31HK-103X QFVF1HJ-224Z QETNLEM-476Z NCB31HK-103X NDC31HJ-681X QETNLHM-474Z NCB31HK-103X NCB31HK-103X	E CAP. E CAP. E CAP. C CAP.	4.7 <sub>1</sub> F 50V M 100 <sub>1</sub> F 50V M 1000 <sub>1</sub> F 16V M 47 <sub>1</sub> F 25V M 0.01 <sub>1</sub> F 50V K 6800F 50V J 0.47 <sub>1</sub> F 50V K 0.01 <sub>1</sub> F 50V K		

# [AV-32D503/M]

A	Symbol No.	Part No.	Part Name	Description
	CAPA	CITOR		
	C626	QETN1EM-108Z	E CAP.	1000 <sub>U</sub> F 25V M
	C627	QETN1HM-474Z	E CAP.	0.47 F 50V M
	C628 C629	QETNLEM-108Z QETNLEM-108Z	E CAP. E CAP.	1000µF 25V M 1000uF 25V M
	C636	QETN1HM-105Z	E CAP.	1μF 50V M
	C637	QETN1HM-105Z	E CAP.	1μF 50V M
	C652	NCB31EK-104X	C CAP.	0.1µF 25V K
	C653 C654	NCB31EK-104X NCB31EK-104X	C CAP. C CAP.	0.1 <sub>μ</sub> F 25V K 0.1 <sub>μ</sub> F 25V K
	C655	NCB31HK-103X		0.01µF 50V K
	C656	NDC31HJ-150X	C CAP.	15pF 50V J
	C657 C658	NDC31HJ-150X NDC31HJ-150X	C CAP. C CAP.	15pF 50V J 15pF 50V J
	C700	NCB31HK-102X	C CAP.	1000pF 50V K
	C701	QETN1HM-106Z	E CAP.	10μF 50V M
	C702 C703	QETN1HM-106Z QETN1HM-106Z	E CAP. E CAP.	10μF 50V M 10μF 50V M
	C703	QETNLCM-107Z	E CAP.	10µF 50V M 100uF 16V M
	C705	NCB31HK-103X	C CAP.	0.01µF 50V K
	C706	QETN1HM-105Z	E CAP.	1µF 50V M
	C708 C709	NDC31HJ-220X NDC31HJ-220X	C CAP. C CAP.	22pF 50V J 22pF 50V J
	C711	QETNICM-107Z	E CAP.	100µF 16V M
	C712	NCB31HK-103X	C CAP.	0.01µF 50V K
	C716 C721	QETN1HM-106Z NCB31HK-103X	E CAP. C CAP.	10րF 50V M 0.01րF 50V K
	C721	NDC31HJ-561X	C CAP.	560pF 50V J
	C728	NCB31HK-103X	C CAP.	0.01µF 50V K
	C807	QETNLAM-477Z	E CAP.	470µF 10V M
	C813 C815	NCB31HK-102X NCB31HK-103X	C CAP. C CAP.	1000pF 50V K 0.01 <sub>u</sub> F 50V K
	C853	QETNICM-227Z	E CAP.	220 <sub>u</sub> F 16V M
	C854	QETN1CM-227Z	E CAP.	220μF 16V M
	C856	QETNICM-227Z	E CAP.	220µF 16V M
Δ	C857 C901	QETN1CM-477Z QFZ9072-104	E CAP. MF CAP.	470μF 16V M 0.1μFAC275V K
Ĭ	C901	or QFZ9075-104	MPP CAP.	0.1 <sub>u</sub> FAC275V M
Δ	C902	QFZ9072-473	MF CAP.	0.047 <sub>µ</sub> FAC275V K
Å	C902 C904	or 0FZ9075-473 QCZ9054-102	MPP CAP. C CAP.	0.047μFAC275V M 1000pFAC250V Z
<u>^</u>			C CAP	100mFAC250V 7
Δ	C905 C906	QCZ9054-102 QCZ9054-102	C CAP.	1000pFAC250V Z
<u>^</u>	C907 C908	QEZ0169-477 QCZ9079-102	E CAP. C CAP.	470μF 200V M 1000pFAC250V M
Ī	C908	or QCZ9054-102	C CAP.	1000pFAC250V Z
	C912	QCZ0340-222	C CAP.	2200pF 2kV K
	C913	QFLC1HJ-471Z QETN1HM-107Z	M CAP. E CAP.	470pF 50V J 100uF 50V M
	C914 C916	NDC31HJ-331X	Č ČAP.	330pF 50V J
	C917	NCB31HK-182X	C CAP.	1800pF 50V K
	C918 C919	NCB21HK-104X QFP32GJ-103	C CAP. PP CAP.	0.1μF 50V K 0.01μF 400V J
	C931	QEZ0203-107	E CAP.	100μF 160V M
	C933	QETN1CM-108Z	E CAP.	1000μF 16V M
	C934	NDC31HJ-151X	C CAP. E CAP.	150pF 50V J 1000uF 25V M
	C935 C937	QETNLEM-108Z OCZ0340-102	C CAP.	1000μF 25V M 1000pF 2kV K
	C938	QETNLCM-477Z	E CAP.	470 µF 16V M
	C939	QCB32HK-152Z	C CAP.	1500pF 500V K
	C941 C942	QCB32HK-102Z QEHR1HM-105Z	C CAP. E CAP.	1000pF 500V K 1μF 50V M
	C951	QETNLEM-477Z	E CAP.	470µF 25V M
	C952	QETN1CM-227Z	E CAP.	220µF 16V M
	C971	QETNLCM-107Z	E CAP. E CAP.	100µF 16V M 47µF 25V M
			L UN.	+/μι ∠JV II
	C972	QETN1EM-476Z OETN1HM-106Z		10hF 50V M
Δ	C972 C973 C997	QETN1HM-106Z QCZ9052-102	E CAP. C CAP.	10µF 50V M 1000pFAC125V M
Δ	C972 C973 C997 C998	QETN1HM-106Z QCZ9052-102 QCZ9074-103	E CAP. C CAP. C CAP.	10μF 50V M 1000pFAC125V M 0.01μFAC250V M
A	C972 C973 C997 C998 C999	QETN1HM-106Z QCZ9052-102 QCZ9074-103 QCZ9074-103	E CAP. C CAP.	10µF 50V M 1000pFAC125V M
A	C972 C973 C997 C998 C999	QETNIHM-106Z QCZ9952-102 QCZ9974-103 QCZ9974-103 LS F QQRQ907-001 CE42034-002	E CAP. C CAP. C CAP.	10¡F 50V M 1000pFAC125V M 0.01µFAC250V M
A A	C972 C973 C997 C998 C999 TRAN T111 T501 T502	QETMLHM-106Z QCZ9952-102 QCZ9974-103 QCZ9974-103 ISF QQR0907-001 CE42034-002 QQH0121-001	E CAP. C CAP. C CAP. C CAP. HOT DRIVE TRANS FB TRANSF	10¡F 50V M 1000pFAC125V M 0.01µFAC250V M
<u>*</u>	C972 C973 C997 C998 C999	QETNIHM-106Z QCZ9952-102 QCZ9974-103 QCZ9974-103 LS F QQRQ907-001 CE42034-002	E CAP. C CAP. C CAP. C CAP.	10 <sub>U</sub> F 50V M 1000pFAC125V M 0.01 <sub>U</sub> FAC250V M

Δ	Symbol No.	Part No.	Part Name	Description
	COIL	-		
	L001 L101	QQL244K-560Z QQL2014-R22	COIL INDUCTOR	56 <sub>µ</sub> Н К
	L113 L131	QQL244K-4R7Z QQL244K-150Z	COIL	4.7μΗ K 15μΗ K
	L161 L232	QQL244K-220Z QQL244K-560Z	INDUCTOR COIL	56 <sub>կ</sub> H K
	L241 L391	QQL244K-220Z QQL244K-220Z	INDUCTOR INDUCTOR	ν-μ
Δ	[511 L512	ŎŎŔ1027-003 OOLZ036-821	LINEARITY COIL INDUCTOR	or QQLZ027-821
Δ	L521 L701	QQL2026-640 QQL244K-220Z	INDÚCTÓR INDÚCTOR	
	L702 L703	QQL244K-220Z QQL244K-220Z	INDUCTOR INDUCTOR	
	L704 L705	QQL244K-220Z QQL244K-220Z	INDUCTOR INDUCTOR	
	L931 L933	QQL26AK-470Z QQL26AK-470Z	COIL COIL	47µH K 47µH K
	L940	QQR0582-001Z	FERRITE BEADS	·
_	DIOD	ÞΕ		
	D305 D306	155133-T2 155133-T2	SI DIODE SI DIODE	
	D307 D308	1SS133-T2 1SS133-T2	SI DIODE	
	D309 D310	155133-T2 155133-T2	SI DIODE SI DIODE SI DIODE	
	D352 D353	MTZJ9.1C-T2 1SS133-T2	Z DIODE Si diode	
	D354 D421	MTZJ3.3A-T2 1N4003-T2	Z DIODE SI DIODE	
	D422 D432	MTZJ75-T2 1SS133-T2	Z DIODE SI DIODE	
Δ	D501 D502 D521	RH3G-F1 RU3AM-LFC4	SI DIODE SI DIODE SI DIODE	
	D523 D525	RH1S-T3 RGP10J-5025-T3 1SS81-T5	SI DIODE SI DIODE	
	D526 D527	15581-T5 15R124-400A-T2	SI DIODE SI DIODE	
Λ	D529 D531	MTZJ5.1C-T2 MA4068N/Z1/-T2	Z DIODE Z DIODE	
	D535 D537	155133-T2 15R35-400A-T2	SI DIODE SI DIODE	
	D601 D602	MTZJ9.1C-T2 MTZJ9.1C-T2	Z DIODE Z DIODE	
	D603 D653	MTZJ9.1C-T2 1SS133-T2	Z DIODE SI DIODE	
	D654 D700	1SS133-T2 MTZJ5.6 <u>B</u> -T2	SI DIODE Z_DIODE_	
	D701 D703	155133-T2 MTZJ5.6B-T2	SI DIODE Z DIODE	
	D704 D705	MTZJ5.6B-T2 1SS133-T2	Z DIODE SI DIODE	
	D706 D707 D708	MTZJ5.6B-T2 MTZJ5.6B-T2 MTZJ5.6B-T2	Z DIODE Z DIODE Z DIODE	
	D700 D709 D721	MTZJ5.6B-T2 MTZJ5.6B-T2 1SS133-T2	Z DIODE SI DIODE	
	D722 D723	155133-T2 MTZJ5.6B-T2	SI DIODE Z DIODE	
Λ	D810 D901	MTZJ5.6B-T2 GSIB460-S1	Z DIO DE BRIDGE DIODE	
Δ	D910 D911	MA700A-T2 RGP10J-5025-T3	SB DIODE SI DIODE	
Ā	D912 D913	RGP 10 J - 5025 - T3 RGP 10 J - 5025 - T3	SI DIODE SI DIODE	
	D914 D915	155133-T2 SARS01-T2	SI DIODE SI DIODE	
	D917 D918	MTZJ30A-T2 MTZJ5.1C-T2	Z DIODE Z DIODE	
	D920 D931	1SS133-T2 RU30A-F1	SI DIODE SI DIODE	
	D933 D935	RU3YX-LFC4 RU3YX-LFC4	SI DIODE	
	D941 D945	MTZJ33A-T2 MTZJ9.1B-T2	Z DIODE Z DIODE	
	D952 D953	155133-T2 155133-T2 1N4002C T2	SI DIODE SI DIODE	
	D954	1N4002G-T2	SI DIODE	

# [ AV-32D503/M ]

<u>∧</u> Symbol No	o. Part No.	Part Name	Description
DIC	DDE		
D955 D956 D957 D972 D973	1N4002G-T2 1N4002G-T2 1N4002G-T2 MTZJ15C-T2 1SS133-T2	SI DIODE SI DIODE Z DIODE Z DIODE SI DIODE	

### TRANSISTOR

Δ	0001 0101 0131 0161 0211 0232 0233 0352 0431 0501 0531 0531 0542 0543 0623 0623 0700 0701 0705 0951 0971	UN2212-X 25C5083/L-P/-T 25B709A/QR/-X 25D601A/QR/-X 25D601A/QR/-X 25D601A/QR/-X 25D601A/QR/-X 25D601A/QR/-X UN2212-X UN2212-X 25C2785/JH/-T 25B709A/QR/-X 25B709A/QR/-X 25B709A/QR/-X 25B709A/QR/-X 25D601A/QR/-X 25D601A/QR/-X 25D601A/QR/-X 25D601A/QR/-X 25D601A/QR/-X 25D601A/QR/-X 25D601A/QR/-X 25D601A/QR/-X 25D601A/QR/-X 25D601A/QR/-X 25D601A/QR/-X 25D601A/QR/-X 25D601A/QR/-X 25D601A/QR/-X 25D601A/QR/-X 25D601A/QR/-X 25D601A/QR/-X 25D601A/QR/-X 25D601A/QR/-X 25D601A/QR/-X 25D601A/QR/-X 25D601A/QR/-X 25D601A/QR/-X 25D601A/QR/-X 25D601A/QR/-X 25D601A/QR/-X 25D601A/QR/-X 25D601A/QR/-X 25D601A/QR/-X 25D601A/QR/-X 25D601A/QR/-X 25D601A/QR/-X 25D601A/QR/-X	DIGI TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR DIGI TRANSISTOR DIGI TRANSISTOR	н.оит
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### IC

Δ	IC101 IC201 IC421 IC601	M52342SP TM8812CSBNG3U68 LA7841 TA1287F-X	IC IC IC		
	IC621 IC702 IC703 IC704	LA4485 AT24C08-32D503 S-80840ANY-T AN78L05-T	IC IC IC IC	(SERVICE)	
Δ	IC852 IC853 IC911	AN7809F AN7805F STR-G6624/F8	IC IC	or BA17809T or BA17805T	
Ā	IC921	SE135N	ĬČ		

### OTHERS

	OTTL	. 13		
A A A A A	CF001 CF131 CF161 CF161 CF100 CF1000 CN0004 CN0007 CN0007 CN0007 CN0000 CP932 CF901 F901 F901 F905 FC900 FR527 J601 K401 K401 K916 K916 K917 K918 K931 K931 K931 K933 K933 K933 K933 LC600 LC600 LC600	QAX0849-001 QAX0639-001Z QAX0639-001Z QAX0639-001Z QBS1505J1-25 QGA2501C5-05Z QGA2501C5-04Z QGA2501C5-07Z QMP0390-200-JS ICP-N70-T ICP-N70-T QMF007-5R0J1 QMF2049-5R0Z-E CEM002-001Z QR29017-4R7 QR29011-470 QNN0849-002 QNS001-001 QQR0582-001Z	C TRAP C TRAP C TRAP C FILTER B TO B CONNE W TO B CONNE W TO B CONNE W TO B CONNE POWER CORD C PROTECTOR C PROTECTOR FUSE FUSE FUSE CLIP F R F R PIN JACK JACK FERRITE BEADS	or QMPD200-200-JC 5.0A or QMF51U1-5R0-J8 5.0A $4.7~\Omega~~1/4\text{M}~~\text{J} \\ 47~\Omega~~1/2\text{M}~~\text{J}$

Δ	Symbol No.	Part No.	Part Name	Description
	OTHE	RS		
Δ Δ Δ Δ	LF901 PC921 RY951 S421 SF101 TH901 TU001 VA901 X701	QQR1085-003 TLP421F/D4-GR/ QSK0086-001 QSL4413-C02 QAX0723-001 QAD0132-3R0 QAU0272-001 ERZVIOV621CS QAX0717-001Z	LINE FILTER OR IC(#HOTO COUPLE RELAY OR Q\$K0130-001, LEVER SWITCH SAW FILTER P THERMISTOR TUNER ZNR CRYSTAL	QR0527-003 QSK0008-001 V.CBNTER SW

#### CRT SOCKET P.W. BOARD ASS'Y (SGE-3006A-M2)

C	RT SOC	KET P.W. BO	DARD ASS'Y (S	GE-3006A-M2)
<u>^</u>	Symbol No.	Part No.	Part Name	Description
	RESI	STOR		
	R3354 R3355 R3355 R3357 R3358 R3360 R3360 R3361 R3362 R3364 R3366 R3366 R3366 R3372 R3377 R3377 R3377 R3377 R3377 R3378 R3374 R3377 R3378 R3374 R3376 R3376 R3376 R3377 R3377 R3377 R3377 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378 R3378	NRSA63J-221X NRSA63J-221X NRSA63J-101X NRSA63J-101X NRSA63J-101X NRSA63J-101X ORZ0111-152 ORZ0111-152 ORZ0111-152 ORG029J-103 ORG029J-103 ORG029J-103 ORG029J-103 ORG029J-103 ORG029J-103 ORSA63J-182X NRSA63J-182X NRSA63J-182X NRSA63J-182X NRSA63J-182X NRSA63J-221X NRSA63J-221X NRSA63J-221X NRSA63J-221X NRSA63J-221X NRSA63J-221X NRSA63J-0ROX ORSA63J-0ROX ORSA63J-102X NRSA63J-102X NRSA63J-102X NRSA63J-102X NRSA63J-102X	MG R MG R MG R MG R MG R MG R C R C R C R OM R OM R OM R MG R M	220Ω 1/16W J 220Ω 1/16W J 220Ω 1/16W J 100Ω 1/16W J 100Ω 1/16W J 100Ω 1/16W J 1.5KΩ 1/2W K 1.5KΩ 1/2W K 1.5KΩ 1/2W K 1.0KΩ 2W J 10KΩ 2W J 10KΩ 2W J 1.8KΩ 1/16W J 1.8KΩ 1/16W J 1.8KΩ 1/16W J 220Ω 1/16W J
	K3395	NK5A63J-102X	MG K	1kΩ 1/16W J
	CAPA	CITOR		
Δ	C3354 C3355 C3356 C3357 C3382 C3391 C3392	NDC31HJ-331X NDC31HJ-331X NDC31HJ-391X QETNICM-107Z QCZ0121-102 QETNIAM-227Z NDC31HJ-101X	C CAP. C CAP. C CAP. E CAP. C CAP. C CAP. C CAP. C CAP.	330pF 50V J 330pF 50V J 330pF 50V J 100µF 16V M 1000pF 3kV Z 220µF 10V M 100pF 50V J
	COIL			
	L3381	QQL244K-101Z	PEAKING COIL	
	DIOD	ÞΕ		
	D3391	155133-T2	SI DIODE	
	TRAN	IS I STOR	₹	
	03351 03352 03353 03391	2SC4544-LB 2SC4544-LB 2SC4544-LB 2SA933AS/QR/-T	POW TRANSISTOR POW TRANSISTOR POW TRANSISTOR TRANSISTOR	
	ОТНЕ	RS		
Δ	CN3004 CN3005 SK3351	QJB003-054010 WJA0027-002A QNZ0537-001	SIN ID C-B WIRE E-S ID WIRE CRT SOCKET	or QNZ0536-001
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### [AV-32D503/M]

Ρ	IP P.W.	<b>BOARD</b>	ASS'Y	SGE-	-4001A-M2)
Δ	Symbol No.	Part No.	Part	Name	Des

	BOARD AS	S'Y (SGE	-
∆ Symbol No.		rai i Name	Description
RES	ISTOR		
R4001	NRSA63J-103X	MG R	10kΩ 1/16W J
R4002 R4003	NRSA63J-103X NRSA63J-101X	MG R MG R	10kΩ 1/16W J 100Ω 1/16W J
R4004	NRSA63J-101X	MG R	100Ω 1/16W J
R4005	NRSA63J-OROX	MG R	0.0Ω 1/16W J
R4008	NRSA63J-820X	MG R	82Ω 1/16W J 5.6kΩ 1/16W J
R4101 R4102	NRSA63J-562X NRSA63J-182X	MG R MG R	5.6kΩ 1/16W J 1.8kΩ 1/16W J
R4103	QRE121J-101Y	CR	100Ω 1/2W J
R4104	NRSA63J-180X	MG R	18Ω 1/16W J
R4105 R4111	NRSA63J-270X NRSA63J-224X	MG R MG R	27Ω 1/16W J 220kΩ 1/16W J
R4113	NRSA63J-101X	MG R	$100\Omega$ 1/16W J
R4114 R4115	NRSA63J-331X	MG R	330Ω 1/16W J
R4116	NRSA63J-101X NRSA63J-680X	MG R MG R	100Ω 1/16W J 68Ω 1/16W J
R4117	NRSA63J-273X	MG R	27kΩ 1/16W J
R4118 R4120	NRSA63J-223X NRSA63J-273X	MG R MG R	22kΩ 1/16W J 27kΩ 1/16W J
R4121	NRSA63J-103X	MG R	10kΩ 1/16W J
R4131	NRSA63J-102X	MG R	1kΩ 1/16W J
R4132 R4133	NRSA63J-331X NRSA63J-821X	MG R MG R	330Ω 1/16W J 820Ω 1/16W J
R4134	NRSA63J-561X	MG R	560Ω 1/16W J
R4135	NRSA63J-102X	MG R	1kΩ 1/16W J
R4161 R4163	NRSA63J-332X NRSA63J-223X	MG R MG R	3.3kΩ 1/16W J 22kΩ 1/16W J
R4171	NRSA63J-103X	MG R	10kΩ 1/16W J
R4301	NRSA63J-473X	MG R	47kΩ 1/16W J
R4303 R4304	NRSA63J-222X NRSA63J-473X	MG R MG R	2.2kΩ 1/16W Ĵ 47kΩ 1/16W J
R4306	NRSA63J-222X	MG R	2.2kΩ 1/16W J
R4307	NRSA63J-471X	MG R	470Ω 1/16W J
R4309 R4311	NRSA63J-102X NRSA63J-101X	MG R MG R	1kΩ 1/16W J 100Ω 1/16W J
R4313	NRS <i>A</i> 63J-101X	MG R	100Ω 1/16W J
R4314 R4316	NRSA63J-OROX NRSA63J-331X	MG R MG R	0.0 <sub>Ω</sub> 1/16W J 330 <sub>Ω</sub> 1/16W J
R4317	NRSA63J-OROX	MG R	330Ω 1/16W J 0.0Ω 1/16W J
R4331	NRSA63J-OROX	MG R	0.0Ω 1/16W J
R4337 R4343	NRSA63J-OROX NRSA63J-OROX	MG R MG R	0.0Ω 1/16W J 0.0Ω 1/16W J
			0.052 27.20 9
CAP	ACITOR		
C4001	QETN1HM-475Z	E CAP.	4.7μF 50V M
C4003	QETNIHM-106Z	E CAP.	10µF 50V M
C4004 C4006	QETNLCM-107Z QETNLEM-476Z	E CAP. E CAP.	100μF 16V M 47μF 25V M
C4010	NDC31HJ-100X	C CAP.	10pF 50V J
C4011 C4101	NDC31HJ-100X NCB31HK-103X	C CAP. C CAP.	10pF 50V J 0.01μF 50V K
C4101	NCB31HK-103X	C CAP.	0.01uF 50V K
C4104	NCB31HK-103X	C CAP. C CAP.	0.01¦ <sub>l</sub> F 50V K
C4105 C4106	NCB31HK-103X QETN1EM-476Z	C CAP. E CAP.	0.01μF 50V K 47μF 25V M
C4107	NCB31HK-103X	C CAP.	0.01μF 50V K
C4113	NCB31HK-103X	C CAP.	0.01μF 50V K
C4114 C4116	NCB31HK-103X QFVF1HJ-224Z	C CAP. MF CAP.	0.01µF 50V K 0.22 <sub>µ</sub> F 50V J
C4110	QETNLEM-476Z	E CAP.	47¦ıF 25V M
C4118	NCB31HK-103X	C CAP.	0.01uF 50V K
C4119 C4120	NDC31HJ-681X QETN1HM-476Z	C CAP. E CAP.	680βF 50V Ĵ 47μF 50V M
C4124	NCB31HK-103X	C CAP.	0.01μF 50V K
C4131	NCB31HK-103X NDC31HJ-181X	C CAP. C CAP.	0.01µF 50V K 180pF 50V J
C4132 C4161	QETN1HM-106Z	E CAP.	10μF 50V J 10μF 50V M
C4168	NCB31HK-103X	C CAP.	0.01µF 50V K
C4301 C4302	NRSA63J-OROX NRSA63J-OROX	MG R MG R	0.0Ω 1/16W J 0.0Ω 1/16W J
C4302 C4312	NDC31HJ-270X	C CAP.	27pF 50V J
C4313	NDC31HJ-270X	C CAP.	27pF 50V J
C4314 C4315	QETN1HM-106Z NCB31HK-103X	E CAP. C CAP.	10μF 50V M 0.01μF 50V K
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<u> </u>	Part No.	Part Name	Description
CAP	ACITOR		
C4316 C4317 C4318 C4319 C4320 C4321 C4322 C4323 C4324 C4325 C4326 C4327 C4328 C4327 C4328 C4329 C4330	NCB31HK-103X NCB31HK-103X NCB31HK-103X QETM1HH-106Z NCB31HK-103X QETM1HH-105Z NCB31HK-103X QETM1HH-106Z NCB31HK-103X NCB31HK-103X NCB31HK-103X NCB31EK-104X QETM1HH-225Z NCB31HK-103X QETM1HH-225Z NCB31HK-103X NCB31HK-103X	C CAP. C CAP. C CAP. E CAP. E CAP. C CAP.	$\begin{array}{cccccc} 0.01_{\mu}F & 50V & K \\ 0.01_{\mu}F & 50V & K \\ 0.01_{\mu}F & 50V & K \\ 10_{\mu}F & 50V & K \\ 10_{\mu}F & 50V & M \\ 0.01_{\mu}F & 50V & K \\ 10_{\mu}F & 50V & K \\ 10_{\mu}F & 50V & K \\ 0.01_{\mu}F & 50V & K \\ 2.2_{\mu}F & 50V & M \\ 0.01_{\mu}F & 50V & K \\ 0.01_{\mu}F & 50V & K$
COI	L		_
L4001 L4101 L4113 L4131 L4302 L4303 L4304	QQL244K-560Z QQL2014-R22 QQL244K-4R7Z QQL244K-150Z QQL244J-6R8Z QQL244J-6R8Z QQL244J-6R8Z	COIL INDUCTOR COIL COIL COIL COIL COIL	56յH K 4.7յH K 15յH K 6.8յH J 6.8յH J 6.8յH J
DIO	DE		
D4301 Q4101 Q4131 Q4301 Q4302 Q4303	1SS133-T2 2SC5083/L-P/-T 2SA1037AK/QR/-X 2SD601A/QR/-X 2SD601A/QR/-X 2SD601A/QR/-X	SI DIODE TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	
IC			
IC4101 IC4301	M52342SP SDA9389X-X	IC IC	
ОТН	ERS		
CF4131 CN4002 SF4101 T4111 △ TU4001 X4301	QAX0639-001Z QGB1505K1-25 CE42589-201 QQR0907-001 QAU0273-001 QAX0521-001Z	C TRAP B TO B CONNE SAW FILTER IFT TUNER CRYSTAL	

# [AV-32D503/M]

### AV SELECTOR P.W. BOARD ASS'Y (SGE-5001A-M2)

AV SELE ▲ Symbol No.		Part Name	S'Y (SGE-5001A-M2)  Description
RES	ISTOR		
R5001	NRSA63J-105X	MG R	1MΩ 1/16W J
R5002	NRSA63J-104X	MG R	100kΩ 1/16W J
R5003 R5004	NRSA63J-682X NRSA63J-153X	MG R MG R	6.8kΩ 1/16W J 15kΩ 1/16W J
R5005	NRSA63J-683X	MG R	68kΩ 1/16W J
R5006	NRSA63J-684X	MG R	680kΩ 1/16W J
R5007	NRSA63J-332X	MG R	3.3kΩ 1/16W J
R5008	NRSA63J-332X	MG R	3.3kΩ 1/16W J
R5009	NRSA63J-333X	MG R	33kΩ 1/16W J
R5010	NRSA63J-392X	MG R	3.9kΩ 1/16W J 220Ω 1/16W J
R5011 R5012	NRSA63J-221X NRSA63J-221X	MG R MG R	220Ω 1/16W J 220Ω 1/16W J
R5151	NRSA63J-223X	MG R	22kΩ 1/16W J
R5152	NRSA63J-223X	MG R	22kΩ 1/16W J
R5153	NRSAG3J-223X	MG R	22kΩ 1/16W J
R5154	NRSA63J-223X	MG R	22kΩ 1/16W J
R5 155 R5 157	NRSA63J-OROX NRSA63J-OROX	MG R MG R	0.0Ω 1/16W J 0.0Ω 1/16W J
R5159	NRSA63J-103X	MG R	10kΩ 1/16W J
R5210	NRSA63J-OROX	MG R	0.0 <sub>Ω</sub> 1/16W J
R5211	NRSA63J-332X	MG R	3.3kΩ 1/16W J
R5212	NRSA63J-103X	MG R	10kΩ 1/16W J
R5213	NRSA63J-102X	MG R	1kΩ 1/16W J
R5214 R5215	NRSA63J-181X NRSA63J-152X	MG R MG R	180Ω 1/16W J 1.5kΩ 1/16W J
R5216	NRSA63J-132X NRSA63J-182X	MG R	1.8kΩ 1/16W J
R5217	NRSA63J-222X	MG R	2.2kΩ 1/16W J
R5240	NRSA63J-OROX	MG R	0.0Ω 1/16W J
R5241	NRSA63J-821X	MG R	820Ω 1/16W J
R5242	NRSA63J-101X	MG R	100Ω 1/16W J
R5243	NRSA63J-101X	MG R	100Ω 1/16W J
R5251	NRSA63J-471X	MG R	470Ω 1/16W J
R5253 R5254	NRSA63J-102X NRSA63J-102X	MG R MG R	1kΩ 1/16W J 1kΩ 1/16W J
R5255	NRSA63J-681X	MG R	680Ω 1/16W J
R5258	NRSA63J-101X	MG R	100Ω 1/16W J
R5259	NRSA63J-222X	MG R	2.2kΩ 1/16W J
R5261	NRSA63J-101X	MG R	100 <sub>Ω</sub> 1/16W J
R5262	NRSA63J-222X	MG R	2.2kΩ 1/16W J
R5263	NRSA63J-471X NRSA63J-102X	MG R MG R	470Ω 1/16W J 1kΩ 1/16W J
R5265 R5269	NRSA63J-681X	MG R	680Ω 1/16W J
R5270	NRSA63J-102X	MG R	1kΩ 1/16W J
R5384	NRSA63J-223X	MG R	22kΩ 1/16W J
R5385	NRSA63J-223X	MG R	22kΩ 1/16W J
R5386	NRSA63J-223X	MG R	22kΩ 1/16W J
R5387	NRSA63J-223X	MG R	22kΩ 1/16W J
R5391 R5392	NRSA63J-221X NRSA63J-221X	MG R MG R	220Ω 1/16W J 220Ω 1/16W J
R5393	NRSA63J-823X	MG R	82kΩ 1/16W J
R5394	NRSA63J-823X	MG R	82kΩ 1/16W J
R5395	NRSA63J-221X	MG R	220Ω 1/16W J
R5396	NRSA63J-221X	MG R	220Ω 1/16W J
R5501	NRSA63J-221X NRSA63J-221X	MG R	220Ω 1/16W J 220Ω 1/16W J
R5502 R5503	NRSA63J-221X	MG R MG R	220Ω 1/16W J 220Ω 1/16W J
R5504	NRSA63J-221X	MG R	220Ω 1/16W J
R5505	NRSA63J-221X	MG R	220Ω 1/16W J
R5507	NRSA63J-333X	MG R	33kΩ 1/16W J
R5508	NRSA63J-153X	MG R	15kΩ 1/16W J
R5509	NRSA63J-221X	MG R	220Ω 1/16W J
R5510	NRSA63J-221X	MG R	220Ω 1/16W J
R5511 R5512	NRSA63J-221X NRSA63J-221X	MG R MG R	220Ω 1/16W J 220Ω 1/16W J
R5513	NRSA63J-221X	MG R	22032 1/16W J 15kΩ 1/16W J
R5514	NRSA63J-103X	MG R	10kΩ 1/16W J
R5515	NRSA63J-103X	MG R	10kΩ 1/16W J
R5516	NRSA63J-103X	MG R	10kΩ 1/16W J
R5517	NRSA63J-103X	MG R	10kΩ 1/16W J
R5519 R5520	NRSA63J-750X NRSA63J-750X	MG R MG R	75Ω 1/16W J 75Ω 1/16W J
R5520 R5521	NRSA63J-750X NRSA63J-750X	MG R	75Ω 1/16W J
R5522	NRSA63J-224X	MG R	220kΩ 1/16W J
R5523	NRSA63J-224X	MG R	220kΩ 1/16W J
R5527	NRSA63J-750X	MG R	75Ω 1/16W J
R5532	NRS <i>A</i> 63J-224X	MG R	220kΩ 1/16W J

A Symbol No	Part No	Part Name	Description
∆ Symbol No.	Part No.	rai i Naiile	vesa iption
		HC D	2201 - 1/401
R5533 R5541	NRSA63J-224X NRSA63J-221X	MG R MG R	220kΩ 1/16W J 220Ω 1/16W J
R5542	NRSA63J-221X	MG R	2200 1/16W J
R5543	NRSA63J-221X	MG R	220Ω 1/16W J
R5544	NRSA63J-331X	MG R	330Ω 1/16W J
R5545	NRSA63J-331X	MG R	33ΩΩ 1/16W J
R5546	NRSA63J-103X NRSA63J-0R0X	MG R	10kΩ 1/16W J 0.0Ω 1/16W J
R5 5 58 R5 5 59	NRSA63J-OROX	MG R MG R	0.Q2 1/16W J 0.QΩ 1/16W J
R5560	NRSA63J-OROX	MG R	0.0Ω 1/16W J
R5561	NRSA63J-OROX	MG R	0.0Ω 1/16W J
R5564	NRSA63J-OROX	MG R	0.0Ω 1/16W J
R5565	NRSA63J-OROX	MG R	0.0Ω 1/16W J
CAPA	AC I TOF	₹	
C5001	QENCIHM-475Z	E CAP. C CAP.	4.7μF 50V M 560QpF 50V K
C5002 C5003	NCB31HK-562X NCB31HK-123X	C CAP.	5600pF 50V K 0.012 <sub>μ</sub> F 50V K
C5004	QETN1HM-105Z	E CAP.	0.012 με 50V K 1με 50V M
C5005	QETN1HM-475Z	E CAP.	4.7μF 50V M
C5006	QETN1HM-106Z	E CAP.	10μF 50V M
C5007 C5008	QETN1HM-475Z	E CAP. E CAP.	4.7μF 50V M 100μF 16V M
C5009	QETN1CM-107Z QENC1HM-475Z	E CAP.	100μF 16V M 4.7μF 50V M
C5010	QETN1HM-475Z	E CAP.	4.7µF 50V M
C5011 C5012	QENC1HM-475Z	E CAP.	4.7μF 50V M
C5012	NCB31HK-272X NCB31HK-473X	C CAP. C CAP.	2700pF 50V K 0.047μF 50V K
C5014	QENC1HM-475Z	E CAP.	4.7μF 50V M
C5015	QBTC1CK-106Z	TAN.CAP.	10µF 16V K
C5016	QETN1HM-105Z	E CAP.	1μ 50V M
C5017	QENC1HM-105Z	E CAP.	1 <sub>µ</sub> F 50V M
C5018 C5019	QETN1HM-105Z NCB31HK-223X	E CAP. C CAP.	1μF 50V M 0.022μF 50V K
C5020	NCB31HK-472X	C CAP.	47000F 50V K
C5021	QENC1HM-475Z	E CAP.	4.7μF 50V M
C5022	NCB31EK-104X	C CAP. C CAP.	0.1μF 25V K
C5023 C5024	NCB31HK-472X QENC1HM-475Z	E CAP.	4700pF 50V K 4.7μF 50V M
	NCB31EK-104X	C CAP.	0.1uF 25V K
C5025 C5026	QBTC1CK-335Z	TAN.CAP.	3.3μF 16V K
C5151	QENCIHM-105Z	E CAP. E CAP.	1μF 50V M
C5152 C5153	QENC1HM-105Z NCB31HK-332X	C CAP.	1μF 50V M 3300pF 50V K
C5154	NCB31HK-332X	C CAP.	3300pF 50V K
C5155	NCB31EK-333X	C CAP.	0.033 μF 25V K
C5156 C5157	NCB31EK-333X QETN1HM-106Z	C CAP. E CAP.	0.033 μF 25V K 10μF 50V M
C515/	QETNIHM-106Z	E CAP.	10μF 50V M
C5159	QETNLEM-476Z	E CAP.	47µF 25V M
C5160	NCB31EK-104X	C CAP.	0.1μF 25V K
C5203 C5204	QETNLEM-476Z NCB31HK-103X	E CAP. C CAP.	47μF 25V M 0.01μF 50V K
C5205	QETNLEM-476Z	E CAP.	47μF 25V M
C5206	NCB31HK-103X	C CAP.	0.01μF 50V K
C5211	QENC1CM-106Z	E CAP.	10μF 16V M
C5212	NDC31HJ-101X	C CAP.	100pF 50V J 47pF 50V J
C5213 C5214	NDC31HJ-470X NDC31HJ-181X	C CAP. C CAP.	47pF 50V J 180pF 50V J
C5215	QETN1HM-474Z	E CAP.	0.47µF 50V M
C5226	NCB31HK-103X	C CAP.	0.01μF 50V K
C5231	QETN1CM-107Z NCB31HK-103X	E CAP. C CAP.	100μF 16V M 0.01μF 50V K
C5232 C5233	NCB31HK-103X	C CAP.	0.01 <sub>µ</sub> F 50V K
C5234	NCB31HK-103X	C CAP.	0.01μF 50V K
C5235	NCB31HK-103X	C CAP.	0.01µF 50V K
C5236	QETNICM-107Z	E CAP.	100μF 16V M
C5237 C5238	NCB31HK-103X QETN1CM-107Z	C CAP. E CAP.	0.01μF 50V K 100μF 16V M
C5239	NCB31HK-103X	C CAP.	0.01 <sub>u</sub> F 50V K
C5240	NCB31HK-103X	C CAP.	0.01μF 50V K
C5241	NCB31HK-103X	C CAP.	0.01µF 50V K
C5242 C5243	QETN1CM-107Z NCB31HK-103X	E CAP. C CAP.	100μF 16V M 0.01μF 50V K
C5245 C5246	NDC31HJ-181X	C CAP.	180pF 50V J
C5247	NCB31HK-103X	C CAP.	0.01µF 50V K

# [ AV-32D503/M ]

Δ	Symbol No.	Part No.	Part Name	Description
	CAPA	CITOR		
	C5251 C5252 C5253 C5265 C5391 C5392 C5500 C5501 C5531 C5531 C5532 C5534	QETNLEM-476Z NCB31HK-103X NDC31HJ-390X NDC31HJ-150X QETNLHM-474Z QETNLHM-474Z QETNLHM-225Z QETNLEM-476Z QETNLEM-476Z QETNLEM-476Z QETNLEM-476Z QETNLEM-476Z QETNLEM-476Z QETNLEM-476Z NCB31HK-103X QETNLHM-225Z NCB31HK-103X QETNLEM-476Z NCB31HK-103X QETNLEM-476Z NCB31HK-103X QETNLEM-476Z	E CAP. C CAP. C CAP. E CAP. C CAP. C CAP. C CAP. C CAP. C CAP. C CAP.	47µF 25V M 0.01µF 50V K 39pF 50V J 147µF 50V M 0.47µF 50V M 2.2µF 50V M 2.2µF 50V M 47µF 25V M 47µF 25V M 47µF 25V M 47µF 50V M 2.2µF 50V M 47µF 50V M 0.01µF 50V K 2.2µF 50V M 0.01µF 50V K 47µF 25V M 0.01µF 50V K 47µF 25V M
	COIL	-		
	L5202 L5211 L5241 L5242 L5243 L5244 L5245 L5261	QQL244K-150Z QQL244K-4R7Z QQL244K-4R7Z QQL244K-4R7Z QQL244K-4R7Z QQL244K-4R7Z QQL244K-4R7Z QQL244K-4R7Z QQL244K-150Z	COIL COIL COIL COIL COIL COIL	15µH K 4.7µH K 4.7µH K 4.7µH K 4.7µH K 4.7µH K 4.7µH K 15µH K
	DIOD	ÞΕ		
	D5391 D5392 D5500 D5510 D5511	MTZ.J9.1C-T2 MTZ.J9.1C-T2 MTZ.J9.1C-T2 MTZ.J9.1C-T2 MTZ.J9.1C-T2 MTZ.J9.1C-T2 MTZ.J9.1C-T2 MTZ.J9.1C-T2 MTZ.J9.1C-T2 MTZ.J9.1C-T2 MTZ.J9.1C-T2 MTZ.J9.1C-T2 MTZ.J9.1C-T2 MTZ.J9.1C-T2	Z DIODE	
	TRAN	ISISTOF	3	_
	Q5211 Q5212 Q5251 Q5252 Q5253 Q5261 Q5262 Q5262 Q5263 Q5384 Q5386 Q5386 Q5387	25D@1A/QR/-X 25D@1A/QR/-X 25D@1A/QR/-X 25B709A/QR/-X 25D@1A/QR/-X 25D@1A/QR/-X 25D@1A/QR/-X 25D@1A/QR/-X 25B709A/QR/-X DTC323TK-X DTC323TK-X DTC323TK-X DTC323TK-X	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR DIGI TRANSISTOR	
_	IC			-
	IC5001 IC5151 IC5201 IC5501	CXA2134Q NJM2150AD TC90A49P TA1218AN	IC IC IC	
	ОТНЕ			
	CN5001 CN5006 J5501 J5502 J5503	QGB1505K1-35 QGA2501C5-05Z QN20454-001 QNN0349-001 QNN0348-001	B TO B CONNE W TO B CONNE AV JACK PIN JACK PIN JACK	

H	RONI A	V IN P.	W. BOARD ASS'Y	(SGE-6001A-M2)
A	Symbol No	Part No	Part Nama	Description

Δ	Symbol No.	Part No.	Part Name	Description
	RESI	STOR		
	R6401 R6402 R6403	NRSA63J-750X NRSA63J-224X NRSA63J-224X	MG R MG R MG R	75Ω 1/16W J 220kΩ 1/16W J 220kΩ 1/16W J
	CAPA	CITOR		
	C6401 C6402 C6403	QETNICM-476Z QETNIHM-225Z QETNIHM-225Z	E CAP. E CAP. E CAP.	$\begin{array}{ccc} 47\mu F & 16V & M \\ 2.2\mu F & 50V & M \\ 2.2\mu F & 50V & M \end{array}$
	OTHE	RS		
	CN6006 J6401 J6401 J6402 J6402 J6403 J6403 LC6401	QJB003-054010 QNN0281-003 CEMN065-001 QNN0281-002 CEMN065-002 QNN0282-001 CEMN072-003 QQR1199-001	SIN ID C-B WIRE PIN JACK PIN JACK PIN JACK PIN JACK PIN JACK PIN JACK EMI FILTER	

# FRONT CONTROL P.W. BOARD ASS'Y

∆ Symbol No.	•	Part Name	Description
RES	ISTOR		
R7702 R7703 R7704 R7705 R7706 R7708 R7709	NRSA63J-102X NRSA63J-102X NRSA63J-152X NRSA63J-272X NRSA63J-562X NRSA63J-562X NRSA63J-561X	MG R MG R MG R MG R MG R MG R MG R	$\begin{array}{cccc} 1 \text{k}\Omega & 1/16\text{W} & \text{J} \\ 1 \text{k}\Omega & 1/16\text{W} & \text{J} \\ 1.5 \text{k}\Omega & 1/16\text{W} & \text{J} \\ 2.7 \text{k}\Omega & 1/16\text{W} & \text{J} \\ 5.6 \text{k}\Omega & 1/16\text{W} & \text{J} \\ 1.5 \text{k}\Omega & 1/16\text{W} & \text{J} \\ 1.5 \text{k}\Omega & 1/16\text{W} & \text{J} \\ 560\Omega & 1/16\text{W} & \text{J} \end{array}$
CAPA	ACITOR		
C7701	QETNLEM-476Z	E CAP.	47μF 25V M
DIO	DE		
D7701	SLR-342VR3F	LED	
TRAI	NS I STO	R	
Q7702	UN2112-X	DIGI TRANSISTOR	
IC			
IC7701	GP1U281Q	IR DETECT UNIT	
ОТНІ	ERS		
CN7007 S7701 S7702 S7703 S7704 S7705 S7706	QJB003-074826 QSW0619-003Z QSW0619-003Z QSW0619-003Z QSW0619-003Z QSW0619-003Z QSW0619-003Z	SIN ID C-B WIRE TACT SWITCH	POWER MENU CH- CH+ VOL- VOL+

# [AV-32D503/R]

### PRINTED WIRING BOARD PARTS LIST

### MAIN P.W. BOARD ASS'Y (SGE-1022A-M2)

<u>∧</u> Symbol No.	Part No.	Part Name	Description
RESI	ISTOR		
R002 R003 R004 R005 R008 R009 R1001 R1002 R103 R104 R105 R111 R112 R113 R115 R116 R117 R118 R131 R132 R133 R134 R135 R166 R167 R168 R169 R171 R201 R212 R215 R216 R217 R222 R227 R231 R237 R238 R241 R243 R282 R283 R281 R282 R283 R286 R287 R288 R2890 R290 R290 R290 R290 R290 R290 R3002 R3003 R3004	NRS.663.J-0ROX NRS.663.J-0ROX NRS.663.J-101X NRS.663.J-0ROX NRS.663.J-0ROX NRS.663.J-682X NRS.663.J-682X NRS.663.J-682X NRS.663.J-101Y NRS.663.J-101Y NRS.663.J-101X NRS.663.J-101X NRS.663.J-101X NRS.663.J-101X NRS.663.J-101X NRS.663.J-223X NRS.663.J-223X NRS.663.J-223X NRS.663.J-223X NRS.663.J-102X NRS.663.J-102X NRS.663.J-102X NRS.663.J-102X NRS.663.J-103X NRS.66	MG R R R R R R R R R R R R R R R R R R R	0.0Ω 1/16W J 100Ω 1/16W J 100Ω 1/16W J 0.0Ω 1/16W J 0.0Ω 1/16W J 6.8Ω 1/16W J 5.6Ω 1/16W J 1.8Ω 1/16W J 1.8Ω 1/16W J 1.8Ω 1/16W J 1.8Ω 1/16W J 390Ω 1/16W J 390Ω 1/16W J 330Ω 1/16W J 100Ω 1/16W J 100Ω 1/16W J 27Ω 1/16W J 27Ω 1/16W J 22½Ω 1/16W J 1½Ω 1/16W J 1½ΩΩ 1/16W J
R292 R293 R301 R302 R303	NRSA63J-124X NRSA63J-224X NRSA63J-222X NRSA63J-222X NRSA63J-222X	MG R MG R MG R MG R MG R	120 kΩ 1/16W J 220 kΩ 1/16W J 2.2 kΩ 1/16W J 2.2 kΩ 1/16W J 2.2 kΩ 1/16W J

₫	Symbol No.	Part No.	Part Name	Description
	RES	STOR		
<u>A</u>	R432 R433 R434 R435 R441 R447 R447 R447 R501 R502 R501 R503 R504 R503 R504 R505 R511 R523 R526 R527 R528 R528 R528 R528 R531 R534 R535 R534 R535 R534 R535 R536 R547 R548 R5555 R601 R602 R603 R614 R615 R601 R602 R603 R614 R615	NRSA63J-101X NRSA63J-681X QRL029J-181 QRE121J-102Y NRSA63J-0ROX NRSA63J-104X NRSA63J-104X NRSA63J-103X NRSA63J-103X NRSA63J-0ROX NRSA63J-0ROX NRSA63J-103Y QRE021J-103Y QRE021J-103Y QRE121J-103Y QRE121J-103Y QRE121J-154Y QRE121J-154Y QRE121J-154Y QRE121J-154Y QRE121J-154Y QRE121J-154Y NRSA63J-331X QRE121J-154Y NRSA63J-123X	MG R MG R OM R MG R MG R MG R MG R MG R MG R C R MG R C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C R C C C R C C C R C C C R C C C R C C C C	10ΩΩ 1/16W J 68QΩ 1/16W J 18ΩΩ 2M J 1KΩ 1/2M J 0.ΩΩ 1/16W J 100Ω 1/16W J 100Ω 1/16W J 100Ω 1/16W J 27ΩΩ 1/16W J 27ΩΩ 1/16W J 10KΩ 1/2M J 1KΩ 3W J 1KΩ 3W J 22Ω 1/2M J 68QΩ 1/2M J 150KΩ 1/16W J 27KΩ 1/16W J 27KΩ 1/16W J 27KΩ 1/16W J 12KΩ 1/16W J 133Ω 1/16W J 15ΩΩ 1/16W J 168ΩΩ 1/16W J
	R603 R614 R615 R621 R622	NRSA63J-750X NRSA63J-682X NRSA63J-332X NRSA63J-682X NRSA63J-681X	MG R MG R MG R MG R MG R	75Ω 1/16W J 6.8kΩ 1/16W J 3.3kΩ 1/16W J 6.8kΩ 1/16W J 680Ω 1/16W J

# [AV-32D503/R]

<u>∧</u> Symbol No.	Part No.	Part Name	Description	<u>∧</u> Symbol No.	Part No.	Part Name	Description
RES	TSTOR		<u> </u>	CAPA	AC T TOR		· · · · · · · · · · · · · · · · · · ·
R E S :  R732 R733 R734 R737 R739 R740 R755 R756 R764 R765 R766 R767 R769 R7772 R775 R776 R811 R812 R821 R822 R827 R855 △ R857 △ R858 △ R901 △ R909 R911 R912 R913 R914 R915 R917 R918 R919 R914 R915 R917 R918 R919 R914 R915 R917 R918 R919 R924 R930 R939 R940 R941 R950 R951 R951 R951 R951 R977 R918 R919 R924 R930 R939 R940 R941 R950 R951 R951 R951 R951 R977 R918 R979 R978 R977	NRSA63J-101X NRSA63J-472X NRSA63J-472X NRSA63J-472X NRSA63J-472X NRSA63J-103X NRSA63J-103X NRSA63J-153X NRSA63J-221X NRSA63J-221X NRSA63J-221X NRSA63J-221X NRSA63J-221X NRSA63J-221X NRSA63J-221X NRSA63J-103X NRSA63J-103X NRSA63J-103X NRSA63J-103X NRSA63J-103X NRSA63J-103X NRSA63J-102X NRSA6	MG R R R R R R R R R R R R R R R R R R R	100Ω 1/16W J 4.7kΩ 1/16W J 4.7kΩ 1/16W J 4.7kΩ 1/16W J 0.0Ω 1/16W J 10kΩ 1/16W J 10kΩ 1/16W J 10kΩ 1/16W J 20Ω 1/16W J 220Ω 1/16W J 10kΩ 1/16W J 10	C161 C163 C164 C165 C166 C202 C203 C211 C212 C221 C222 C223 C233 C237 C241 C242 C243 C244 C285 C286 C287 C288 C352 C354 C391 C392 C424 C425 C427 C428 C425 C427 C428 C431 C432 C433 C431 C432 C433 C435 C440 C501 C502 C503 C504 C507 C508 A C510 A C513 A C514 A C515 C516	QETMLHM-106Z NDC31HJ-470X NCB31HK-103X NCB31HK-103X NCB31HK-103X QETMLHM-105Z NCB31HK-155Z QENCLCM-106Z NDC31HJ-100X QETMLHM-106Z QFVF1HJ-104Z NCB31HK-103X NDC31HJ-680X NDC31HJ-680X NDC31HJ-680X NDC31HJ-680X NCB31HK-103X QETMLHM-103Z QETMLCM-107Z NCB31HK-103X QETMLHM-107Z NCB31HK-103X QETMLHM-106Z QETMLCM-107Z NCB31HK-103X QETMLCM-107Z QETMLCM-107Z NCB31HK-103X QETMLCM-366Z QETMLCM-366Z QETMLCM-367Z QETMLCM-107Z QETMLVM-107Z QETMLCM-105Z QETML	E C C C C E C E MF C C C C E E C C MF C C C C C C C C C C C C C C C C	10µF 50V M 47pF 50V J 47pF 50V J 0.01µF 50V K 0.01µF 50V K 10µF 50V M 1500pF 50V J 10µF 50V J 10µF 50V J 0.01µF 50V J 0.01µF 50V J 0.01µF 50V K 68pF 50V J 0.01µF 50V K 2.2µF 50V M 100µF 16V M 0.01µF 50V K 2.2µF 50V M 100µF 16V M 0.01µF 50V K 2.2µF 50V M 100µF 16V M 0.01µF 50V K 100µF 16V M 100µF 16V M 0.01µF 50V K 100µF 15V M 0.01µF 16V M 0.01µF 16V M 0.01µF 16V M
R999	QRE121J-121Y ACITOR	C R	120Ω 1/2N J	C521 C523 C525	QETN2EM-106Z QEHR1VM-108Z QETN1VM-107Z	E CAP. E CAP. E CAP.	10μF 250V M 1000μF 35V M 100μF 35V M
C001 C003 C004 C006 C101 C102 C104 C105 C106 C107 C113 C114 C116 C117 C118 C119 C120 C124 C131	QETNIHM-475Z QETNIHM-106Z QETNICM-108Z QETNICM-108Z NCB31HK-103X NCB31HK-103X NCB31HK-103X QETNIEM-476Z NCB31HK-103X NCB31HK-103X NCB31HK-103X NCB31HK-103X QFVF1HJ-224Z QETNIEM-476Z NCB31HK-103X NDC31HJ-681X QETNIHM-474Z NCB31HK-103X NCB31HK-103X	E CAP. E CAP. E CAP. C CAP.	4.7 F 50V M 100 F 50V M 1000 F 16V M 47 F 25V M 0.01 F 50V K	C526 C527 C531 C533 C601 C602 C603 C604 C605 C606 C607 C608 C609 C610 C611 C621 C622 C623 C624 C625	QFV21HJ-824Z QFL(2A)-103Z QGB3HK-102Z QGETNLHM-106Z QETNLEM-476Z QETNLEM-476Z QETNLEM-476Z NCB31EK-104X NCB31EK-104X NCB31EK-104X NCB31EK-104X QFTNLAM-477Z NCB31HK-103X QFVF1HJ-104Z QFVF1HJ-104Z NCB31HK-102X NCF31CZ-105X NCB31HK-102X NCF31CZ-105X QETNLCM-107Z	MF CAP. M CAP. E CAP. E CAP. E CAP. C CAP.	0.82µF 50V J 0.0µF 100V J 100µF 50V M 10µF 50V M 47µF 25V M 47µF 25V M 0.1µF 25V K 0.1µF 25V K 0.1µF 25V K 0.1µF 50V K 0.1µF 50V K 10µF 50V J 0.1µF 50V J 0.1µF 50V J 0.1µF 50V J 0.1µF 50V J 100µF 50V K 1µF 16V Z 100µF 16V M

	[ AV-32	2D503/R]		
Δ	Symbol No.	Part No.	Part Name	Description
\$\text{\Delta} \text{\Delta} \	C626 C627 C628 C629 C636 C637 C6536 C6537 C6553 C6554 C6557 C6558 C7001 C702 C703 C704 C705 C708 C708 C709 C711 C712 C716 C726 C728 C813 C815 C853 C854 C857 C901 C702 C708 C709 C711 C712 C716 C728 C813 C815 C857 C901 C728 C813 C815 C857 C901 C902 C904 C905 C907 C908 C908 C908 C909 C907 C908 C908 C909 C907 C908 C908 C909 C907 C908 C907 C908 C908 C909 C907 C908 C909 C907 C908 C909 C907 C908 C909 C907 C908 C909 C909 C909 C909 C909 C909 C909	QETNLEM-108Z QETNLEM-108Z QETNLEM-108Z QETNLEM-108Z QETNLEM-108Z QETNLEM-108Z QETNLEM-108Z QETNLEM-108Z QETNLEM-105Z QETNLEM-105Z NCB31EK-104X NCB31EK-104X NCB31EK-104X NCB31EK-104X NCB31HK-103X NDC31HJ-150X NDC31HJ-150X NDC31HJ-150X NDC31HJ-150X NDC31HJ-150X NDC31HJ-150X NCB31HK-103Z QETNLEM-106Z QETNLEM-106Z QETNLEM-106Z QETNLEM-106Z QETNLEM-106Z QETNLEM-105Z NDC31HJ-220X NDC31HJ-220X NDC31HJ-220X NDC31HJ-220X NDC31HJ-220X NDC31HJ-220X NDC31HJ-220X QETNLEM-105Z NDC31HJ-220X QETNLEM-105Z NDC31HJ-21X NCB31HK-103X QETNLEM-107Z NCB31HK-103X QETNLEM-107Z NCB31HK-103X QETNLEM-107Z QETNLEM-107Z QETNLEM-227Z QETNLEM-227Z QETNLEM-477Z QETNLEM-227Z QETNLEM-477Z QETNLEM-227Z QETNLEM-477Z QETNLEM-103Z QC29054-102 QC29054-102 QC29054-102 QC29054-102 QC29054-102 QC29054-102 QC29054-102 QC29054-102 QC29054-103 QETNLEM-108Z NDC31HJ-151X QETNLEM-108Z NDC31HJ-151X QETNLEM-108Z NDC31HJ-151X QETNLEM-108Z QC29074-103 QC29074-103 QC29074-103	E E E E E C C C C C C C C C C C C C C C	1000
<u>A</u>	T111 T501 T502 T921 T951	QQRQ907-001 CE42034-002 QQH0121-001 QQS0138-001 QQT0372-001	IFT HOR DRIVE TRANS FB TRANSF SW TRANSF POWER TRANSF	or QQT0355-001

Δ	Symbol No.	Part No.	Part Name	Description
_	COIL			p. 21.20
	L001 L101 L113 L131 L161 L232	QQL 244K-560Z QQL 2014-R22 QQL 244K-4R7Z QQL 244K-150Z QQL 244K-220Z QQL 244K-560Z	COIL INDUCTOR COIL COIL INDUCTOR COIL	56 <sub>µ</sub> H K 4.7 <sub>µ</sub> H K 15 <sub>µ</sub> H K 56µH K
Δ	L241 L391 L511 L512 L501 L701 L702 L703 L704 L705	QQL 244K-220Z QQL 244K-220Z CE41029-00A QQL 2036-821 QQL 2026-540 QQL 244K-220Z QQL 244K-220Z QQL 244K-220Z QQL 244K-220Z QQL 244K-220Z QQL 244K-220Z	INDUCTOR INDUCTOR LINEARITY COIL INDUCTOR	or QLZ027-821
	L931 L933 L940	QQL26AK-470Z QQL26AK-470Z QQR0582-001Z	COIL COIL FERRITE BEADS	47μΗ Κ 47μΗ Κ
_	DIOD	ÞE		
Δ. Δ	D305 D306 D307 D308 D307 D308 D309 D310 D352 D353 D354 D422 D501 D502 D521 D523 D525 D527 D529 D526 D527 D529 D601 D602 D603 D603 D701 D703 D704 D707 D708 D707 D708 D707 D708 D707 D708 D707 D708 D709 D721 D722 D723 D721 D722 D723 D721 D722 D723 D721 D721 D721 D721 D722 D723 D721 D721 D721 D721 D721 D721 D721 D722 D723 D721 D721 D721 D721 D723 D721 D721 D721 D723 D721 D721 D723 D724 D725 D727 D728 D729 D729 D721 D729 D721 D721 D721 D721 D722 D723 D723 D724 D725 D725 D726 D727 D727 D728 D729 D729 D729 D721 D721 D721 D721 D721 D722 D723 D723 D724 D725 D725 D725 D726 D727 D727 D728 D729 D729 D729 D729 D729 D729 D729 D729	1SS133-T2 1SS13-T2 1SS13-T2 1SS13-T2 1SS13-T2 1SS13-T2 1SS13-T2 1SS13-T2 1SS133-T2	SI DIODE	

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⚠	Symbol No.	Part No.	Part Name	Description
	DIOD	E		
	D955 D956 D957 D972 D973	1N4002G-T2 1N4002G-T2 1N4002G-T2 MTZJ15C-T2 1SS133-T2	SI DIODE SI DIODE Z DIODE SI DIODE SI DIODE	

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Δ	0001 0101 0131 0131 0211 0232 0233 0352 0431 0501 0531 0532 0541 0542 0542 0543 0623 0700 0701	UN2212-X 2SC5083/L-P/-T 2SB709A/QR/-X 2SD601A/QR/-X 2SD601A/QR/-X 2SD601A/QR/-X 2SD601A/QR/-X 2SD601A/QR/-X UN2212-X 2SC4212/Z1/ 2SD2645-YD 2SC2785/JH/-T 2SB709A/QR/-X 2SB709A/QR/-X 2SB709A/QR/-X 2SB709A/QR/-X 2SB709A/QR/-X 2SD601A/QR/-X 2SD601A/QR/-X 2SB609A/QR/-X 2SD601A/QR/-X 2SD601A/QR/-X 2SD601A/QR/-X 2SD601A/QR/-X 2SD601A/QR/-X 2SD601A/QR/-X 2SD601A/QR/-X 2SD601A/QR/-X 2SD601A/QR/-X 2SD601A/QR/-X 2SD601A/QR/-X 2SD601A/QR/-X 2SD601A/QR/-X 2SD601A/QR/-X 2SD601A/QR/-X 2SD601A/QR/-X 2SD601A/QR/-X 2SD601A/QR/-X 2SD601A/QR/-X 2SD601A/QR/-X 2SD601A/QR/-X 2SD601A/QR/-X 2SD601A/QR/-X 2SD601A/QR/-X 2SD601A/QR/-X 2SD601A/QR/-X 2SD601A/QR/-X 2SD601A/QR/-X 2SD601A/QR/-X 2SD601A/QR/-X 2SD601A/QR/-X 2SD601A/QR/-X 2SD601A/QR/-X 2SD601A/QR/-X 2SD601A/QR/-X 2SD601A/QR/-X 2SD601A/QR/-X 2SD601A/QR/-X 2SD601A/QR/-X 2SD601A/QR/-X 2SD601A/QR/-X 2SD601A/QR/-X 2SD601A/QR/-X 2SD601A/QR/-X 2SD601A/QR/-X 2SD601A/QR/-X 2SD601A/QR/-X 2SD601A/QR/-X 2SD601A/QR/-X 2SD601A/QR/-X 2SD601A/QR/-X 2SD601A/QR/-X 2SD601A/QR/-X 2SD601A/QR/-X 2SD601A/QR/-X 2SD601A/QR/-X 2SD601A/QR/-X 2SD601A/QR/-X 2SD601A/QR/-X 2SD601A/QR/-X 2SD601A/QR/-X 2SD601A/QR/-X 2SD601A/QR/-X 2SD601A/QR/-X 2SD601A/QR/-X 2SD601A/QR/-X 2SD601A/QR/-X 2SD601A/QR/-X 2SD601A/QR/-X 2SD601A/QR/-X 2SD601A/QR/-X 2SD601A/QR/-X 2SD601A/QR/-X 2SD601A/QR/-X 2SD601A/QR/-X 2SD601A/QR/-X 2SD601A/QR/-X 2SD601A/QR/-X 2SD601A/QR/-X 2SD601A/QR/-X 2SD601A/QR/-X 2SD601A/QR/-X 2SD601A/QR/-X 2SD601A/QR/-X 2SD601A/QR/-X 2SD601A/QR/-X	DIGI TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR DIGI TRANSISTOR TRANSISTOR DIGI TRANSISTOR	H.OUT
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A	IC101 IC201 IC421	M52342SP TM8812CSBNG3U68 LA7841	IC IC IC	
₩	IC601	TA1287F-X	ĪČ	
	IC621	LA4485	IC	(CED/ICE)
	IC702 IC703	AT24C08-32D503 S-80840ANY-T	IC IC	(SERVICE)
	IC704	AN78L05-T	ĪČ	
	IC852	AN7809F	IC	or BA17809T
	IC853	AN7805F	IC	or BA17805T
Δ	IC911	STR-G6624/F8	IC	
Λ	IC921	SE135N	I C	

### OTHERS

CF001 CF131 CF161 CN002 CN002 CN004 CN005 CN007  Δ CN0PW Δ CP932 Δ P901 Δ F905 FC902 Δ FR5.25 Δ FR5.25 Δ FR5.27 J810 K401 K912 K912 K917 K918 K931 K931 K931 K931 K933 K933 CC601 LC602	QAXQB49-001 QAXQB49-0017 QAXQB42-0017 QAXQB42-0017 QGB1505J1-35 QGB1505J1-25 QGA2501C5-057 QGA2501C5-077 QMPD390-200-JS ICP-N70-T ICP-N70-T ICP-N70-T ICP-N70-T QMFQ049-5802-E CEMG002-0017 CEMG002-0017 CRZ9017-4R7 QRZ9017-4R7 QRZ9011-470 QNXQB49-002 QNSQ01-001 QQRG82-0017	C TRAP C TRAP C TRAP C TRAP C FILTER B TO B CONNE B TO B CONNE W TO B CONNE W TO B CONNE W TO B CONNE POWER CORD C PROTECTOR FUSE FUSE FUSE FUSE CLIP F R F R PIN JACK JACK FERRITE BEADS	or QMPD200-200-JC 5.0A or QMF51U1-5RO-J8 5.0A 4.7 Ω 1/4N J 47Ω 1/2N J
LC602	QQR1199-001	EMI FILTER	
LC603	QQR1199-001	EMI FILTER	

Δ	Symbol No.	Part No.	Part Name	Description
	OTHE	RS		
<b>A A A A</b>	LF901 PC921 RY951 S421 SF101 TH901 TU001 VA901	QQR1085-003 TLP421F/D4-GR/ QSK0086-001 QSL4A13-C02 QAX0723-001 QAD0132-3R0 QAU0272-001 ERZY10V621CS	LINE FILTER IC(HOTO COUPLE RELAY or QSK0130- LEVER SWITCH SAW FILTER P THERMISTOR TUNER ZNR	or QQR0527-003 -001,QSK0085-001
	X701	QAX0717-001Z	CRYSTAL	

#### CRT SOCKET P.W. BOARD ASS'Y (SGE-3007A-M2)

CRISO. ∆ Symbol No.		Part Name	SGE-300/A-M2) Description
RES	ISTOR		<u> </u>
R3354 R3355 R3355 R3355 R3356 R3360 R3360 R3360 R3364 R3365 R3366 R3367 R3377 R3377 R3377 R3377 R3377 R3377 R3377 R3377 R3378 R3378 R3378	NRSA63J-221X NRSA63J-221X NRSA63J-211X NRSA63J-101X NRSA63J-101X NRSA63J-101X ORZ0111-152 ORZ0111-152 ORC011-153 ORG029J-103 ORG029J-103 ORG029J-103 ORG029J-103 ORG029J-103 ORG03J-182X NRSA63J-182X NRSA63J-182X NRSA63J-182X NRSA63J-221X NRSA63J-221X NRSA63J-221X NRSA63J-20X NRSA63J-0ROX NRSA63J-0ROX NRSA63J-102X NRSA63J-102X NRSA63J-102X NRSA63J-102X NRSA63J-102X NRSA63J-102X	MG R MG R MG R MG R MG R C R C R C R OM R OM R MG R M	22Ω 1/16W J 22Ω 1/16W J 22Ω 1/16W J 10Ω 1/16W J 10Ω 1/16W J 10Ω 1/16W J 1.5kΩ 1/2W K 1.5kΩ 1/2W K 1.5kΩ 1/2W K 1.6kΩ 2W J 10kΩ 2W J 10kΩ 2W J 10kΩ 2W J 10kΩ 1/16W J 2.Ω 1/16W J 3.9kΩ 1/16W J
C3354 C3355 C3356 C3357 A C3382 C3391 C3392	NDC31HJ-331X NDC31HJ-331X NDC31HJ-391X QETNLCM-107Z QCZ0121-102 QETNLAM-227Z NDC31HJ-101X	C CAP. C CAP. C CAP. E CAP. E CAP. C CAP.	330pF 50V J 330pF 50V J 390pF 50V J 100pF 16V M 100pF 3kV Z 220pF 10V M 100pF 50V J
COI	L		
L3381	QQL244K-101Z	PEAKING COIL	
DIO			
D3391	155133-T2	SI DIODE	
	NSISTO		
03351 03352 03353 03391	2SC4544-LB 2SC4544-LB 2SC4544-LB 2SA933AS/QR/-T	POW TRANSISTOR POW TRANSISTOR POW TRANSISTOR TRANSISTOR	
ОТН	ERS		
CN3004 CN3005 ∆ SK3351	QJB003-054010 WJA0027-002A QNZ0537-001	SIN ID C-B WIRE E-S ID WIRE CRT SOCKET	or QNZ0536-001

### [AV-32D503/R]

### PIP P.W. BOARD ASS'Y (SGE-4001A-M2)

Refer to PARTS LIST in page 44 for this P.W. board

### AV SELECTOR P.W. BOARD ASS'Y (SGE-5001A-M2)

Refer to PARTS LIST in page 45 for this P.W. board

#### FRONT AV IN P.W. BOARD ASS'Y (SGE-6001A-M2)

Refer to PARTS LIST in page 46 for this P.W. board

# FRONT CONTROL P.W. BOARD ASS'Y (SGE-7001A-M2)

Refer to PARTS LIST in page 46 for this P.W. board

# [AV-32D503/Y]

### PRINTED WIRING BOARD PARTS LIST

### MAIN P.W. BOARD ASS'Y (SGE-1003A-M2)

Δ	Symbol No.	Part No.	Part Name	Description
	RES	ISTOR		
	R002 R003	NRSA63J-OROX NRSA63J-101X	MG R MG R	0.0Ω 1/16W J 100Ω 1/16W J
	R004	NRSA63J-101X	MG R	$100\Omega$ 1/16W J
	R005	NRSA63J-OROX	MG R	0.0Ω 1/16W J
	R008	NRSA63J-820X	MG R	82Ω 1/16W J
	R009 R101	NRS <i>A</i> 63J-682X NRS <i>A</i> 63J-562X	MG R MG R	6.8kΩ 1/16W J 5.6kΩ 1/16W J
	R102	NRSA63J-182X	MG R	1.8kΩ 1/16W J
	R103	QRE121J-101Y	C R	100Ω 1/2W J
	R104	NRSA63J-180X NRSA63J-270X	MG R	18Ω 1/16W J
	R105 R111	NRSA63J-394X	MG R MG R	27Ω 1/16W J 390kΩ 1/16W J
	R112	NRSA63J-334X	MG R	330kΩ 1/16W J
	R113	NRSA63J-101X	MG R	100Ω 1/16W J
	R115 R116	NRS <i>A</i> 63J-101X NRSA63J-680X	MG R MG R	100Ω 1/16W J 68Ω 1/16W J
	R117	NRSA63J-273X	MG R	27kΩ 1/16W J
	R118	NRSA63J-223X	MG R	22kΩ 1/16W J
	R131	NRSA63J-102X	MG R	1kΩ 1/16W J
	R132 R133	NRS <i>A</i> 63J-331X NRS <i>A</i> 63J-821X	MG R MG R	330Ω 1/16W J 820Ω 1/16W J
	R134	NRSA63J-561X	MG R	560Ω 1/16W J
	R135	NRSA63J-102X	MG R	1kΩ 1/16W J
	R161 R162	NRSA63J-332X NRSA63J-OROX	MG R MG R	3.3kΩ 1/16W J 0.0Ω 1/16W J
	R163	NRSA63J-223X	MG R	22kΩ 1/16W J
	R164	NRSA63J-102X	MG R	1kΩ 1/16W J
	R165 R166	NRSA63J-223X NRSA63J-103X	MG R MG R	22kΩ 1/16W J 10kΩ 1/16W J
	R167	NRSA63J-102X	MG R	1κΩ 1/16W J
	R168	NRSA63J-101X	MG R	100Ω 1/16W J
	R169 R171	NRS <i>A</i> 63J-561X NRS <i>A</i> 63J-103X	MG R MG R	560 <u>Ω</u> 1/16W J 10k <u>Ω</u> 1/16W J
	R201	NRSA63J-223X	MG R	22kΩ 1/16W J
	R212	NRSA63J-272X	MG R	2.7kΩ 1/16W J
	R215 R216	NRSA63J-562X NRSA63J-562X	MG R MG R	5.6kΩ 1/16W J 5.6kΩ 1/16W J
	R217	NRSA63J-102X	MG R	1kΩ 1/16W J
	R222	NRSA63J-OROX	MG R	0.0Ω 1/16W J
	R227	NRSA63J-104X	MG R	100kΩ 1/16W J
	R231 R237	NRSA63J-182X NRSA63J-392X	MG R MG R	1.8kΩ 1/16W J 3.9kΩ 1/16W J
	R238	NRSA63J-473X	MG R	47kΩ 1/16W J
	R241	NRSA63J-332X	MG R	3.3kΩ 1/16W J
	R243 R281	NRSA63J-152X NRSA63J-182X	MG R MG R	1.5kΩ 1/16W J 1.8kΩ 1/16W J
	R282	NRSA63J-392X	MG R	3.9kΩ 1/16W J
	R283	NRSA63J-681X	MG R	680Ω 1/16W J
	R286 R287	NRSA63J-472X NRSA63J-101X	MG R MG R	4.7kΩ 1/16W J 100Ω 1/16W J
	R288	NRSA63J-471X	MG R	470Ω 1/16W J
	R289	NRSA63J-154X	MG R	150kΩ 1/16W J
	R290 R292	NRSA63J-561X NRSA63J-124X	MG R MG R	560Ω 1/16W J 120kΩ 1/16W J
	R293	NRSA63J-224X	MG R	220kΩ 1/16W J
	R301	NRSA63J-222X	MG R	2.2kΩ 1/16W J
	R302 R303	NRSA63J-222X NRSA63J-222X	MG R MG R	2.2kΩ 1/16W J 2.2kΩ 1/16W J
	R304	NRSA63J-101X	MG R	100Ω 1/16W J
	R305	NRSA63J-101X	MG R	100Ω 1/16W J
	R306 R354	NRSA63J-101X NRSA63J-0R0X	MG R MG R	100 <sub>Ω</sub> 1/16W J 0.0 <sub>Ω</sub> 1/16W J
	R355	NRSA63J-OROX	MG R	0.0Ω 1/16W J
	R356	NRSA63J-123X	MG R	12kΩ 1/16W J
	R359 R360	NRSA63J-103X	MG R C CAP.	10kΩ 1/16W J 0.01μF 50V K
	R421	NCB31HK-103X NRS <i>A</i> 63J-822X	MG R	8.2kΩ 1/16W J
	R423	NRSA63J-393X	MG R	39kΩ 1/16W J
	R424 R426	NRS <i>A</i> 63J-393X NRS <i>A</i> 63J-183X	MG R MG R	39kΩ 1/16W J 18kΩ 1/16W J
	R420 R427	QRT029J-1R5	MF R	1.5Ω 2W J

Δ	Symbol No.	Part No.	Part Name	Description
	RES	ISTOR		
	R432	NRSA63J-101X	MG R	10Ω 1/16W J
	R433	NRSA63J-681X	MG R	68QΩ 1/16W J
	R434	ORL029J-181	OM R	180Ω 2W J
	R435	QRE121J-102Y	CR	1kΩ 1/2W J
	R441	NRSA63J-OROX	MG R	0.0Ω 1/16W J
	R447	NRSA63J-104X	MG R	100kΩ 1/16W J
	R448	NRSA63J-473X	MG R	47kΩ 1/16W J
	R449	NRSA63J-103X	MG R	10kΩ 1/16W J
	R501	NRSA63J-OROX	MG R	0.0Ω 1/16W J
	R502	NRSA63J-271X	MG R	270Ω 1/16W J
	R503	QRE121J-103Y	C R	10kΩ 1/2W J
	R504	QRL039J-102	OM R OM R	1kΩ 3W J 1kΩ 3W J
	R505 R511	QRL039J-102 QRE121J-220Y	ČR	22 <sub>Ω</sub> 1/2W Ĵ
	R512	QRE121J-681Y	C R	680Ω 1/2W J
	R523	QRJ146J-333X	C R	33kΩ 1/4W J
	R526	QRE121J-272Y	C R	2.7kΩ 1/2W J
	R527	QRE121J-154Y	C R	150kΩ 1/2W J
	R528	QRE121J-154Y	C R	150kΩ 1/2W J
	R529	NRSA63J-331X	MG R	330Ω 1/16W J
	R531	QRJ146J-391X	C R	390Ω 1/4W J
	R532	NRS <i>A</i> 63J-273X	MG R MG R	27kΩ 1/16W J
	R533 R534	NRSA63J-123X NRSA63J-123X	MG R	12kΩ 1/16W J 12kΩ 1/16W J
Δ	R535	NRVAO2D-222X	MF R	2.2kΩ 1/10W D
	R537	NRVAO2D-752X	MF R	7.5kΩ 1/10W D
	R538	NRSA63J-333X	MG R	33kΩ 1/16W J
	R543	QRE121J-122Y	C R	1.2kΩ 1/2W J
	R544	QRE121J-392Y	C R	3.9kΩ 1/2W J
	R545	QRE121J-822Y	C R	8.2kΩ 1/2W J
	R546	NRSA63J-331X	MG R	330Ω 1/16W J
	R547	NRSA63J-104X	MG R	100kΩ 1/16W J
	R548	QRE121J-152Y	C R	1.5kΩ 1/2W J
Δ	R553	QRL039J-180	OM R	18Ω 3W J
Δ	R554	QRK126J-150X	C R	15Ω 1/2W J
	R555	QRX029J-3R3	MF R	3.3Ω 2W J
	R601	NRSA63J-750X	MG R	75Ω 1/16W J
	R602	NRSA63J-750X	MG R	75Ω 1/16W J
	R603	NRSA63J-750X	MG R	75Ω 1/16W J
	R614	NRSA63J-682X	MG R	6.8KΩ 1/16W J
	R615	NRSA63J-332X	MG R	3.3KΩ 1/16W J
	R621	NRSA63J-682X	MG R	6.8kΩ 1/16W J
	R622	NRSA63J-681X	MG R	680Ω 1/16W J
	R623 R624	NRSA63J-682X NRSA63J-681X	MG R MG R	6.8kΩ 1/16W J
	R626	NRSA63J-223X	MG R	22kΩ 1/16W J
	R627	NRSA63J-223X	MG R	22kΩ 1/16W J
	R631	NRSA63J-333X	MG R	33kΩ 1/16W J
	R632	NRSA63J-223X	MG R	22kΩ 1/16W J
	R638	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
	R639	NRSA63J-OROX	MG R	0.0Ω 1/16W J
	R651	NRSA63J-OROX	MG R	0.0Ω 1/16W J
	R652	NRSA63J-OROX	MG R	0.0Ω 1/16W J
	R653	NRSA63J-OROX	MG R	0.0Ω 1/16W J
	R655	NRSA63J-153X	MG R	15kΩ 1/16W J
	R700	NRSA63J-102X	MG R	1kΩ 1/16W J
	R701	NRSA63J-103X	MG R	10kΩ 1/16W J
	R702	NRSA63J-102X	MG R	1kΩ 1/16W J
	R704	NRSA63J-472X	MG R	4.7kΩ 1/16W J
	R705	NRSA63J-472X	MG R	4.7kΩ 1/16W J
	R706	NRSA63J-472X	MG R	4.7kΩ 1/16W J
	R707	NRSA63J-103X	MG R	10kΩ 1/16W J
	R708	NRSA63J-101X	MG R	100Ω 1/16W J
	R709	NRSA63J-101X	MG R	100Ω 1/16W J
	R714	NRSA63J-823X	MG R	82kΩ 1/16W J
	R715	NRSA63J-103X	MG R	10kΩ 1/16W J
	R718	NRSA63J-223X	MG R	22kΩ 1/16W J
	R721	NRSA63J-102X	MG R	1kΩ 1/16W J
	R728	NRSA63J-102X	MG R	1kΩ 1/16W J
	R729	NRSA63J-223X	MG R	22kΩ 1/16W J
	R731	NRSA63J-101X	MG R	100Ω 1/16W J

# [ AV-32D503/Y ]

A	Symbol No	Part No.	Part Name	Description
Δ	Symbol No.		rait Name	vesa iption
A A A A	RESI  R732  R734  R737  R739  R740  R754  R755  R766  R766  R767  R777  R776  R811  R8112  R816  R8211  R8112  R816  R8211  R8112  R8116  R8211  R8118  R8111  R8118  R8111  R8119  R8211  R8118  R8211  R8211  R8310  R8211  R8310  R8311  R8311  R8311  R8311  R8312  R8313  R8314  R8316  R8317  R8318  R8319  R9111  R9112  R8310  R8311  R9112  R8310  R8311  R831	NRSA63J-101X NRSA63J-472X NRSA63J-472X NRSA63J-472X NRSA63J-472X NRSA63J-103X NRSA63J-153X NRSA63J-153X NRSA63J-153X NRSA63J-221X NRSA63J-221X NRSA63J-221X NRSA63J-221X NRSA63J-221X NRSA63J-221X NRSA63J-221X NRSA63J-221X NRSA63J-103X NRSA63J-103X NRSA63J-103X NRSA63J-103X NRSA63J-103X NRSA63J-103X NRSA63J-103X NRSA63J-102X NRSA63J-102X NRSA63J-102X NRSA63J-102X ORCO2J-820 ORCO2J-820 ORCO2J-820 ORCO2J-820 ORCO2J-820 ORCO2J-820 ORCO2J-820 ORCO2J-820 ORCO2J-820 ORCO2J-820 ORCO2J-820 ORCO2J-820 ORCO2J-820 ORCO2J-820 ORCO2J-820 ORCO2J-820 ORCO2J-820 ORCO2J-820 ORCO2J-820 ORCO2J-820 ORCO2J-820 ORCO2J-820 ORCO2J-820 ORCO2J-820 ORCO2J-820 ORCO2J-820 ORCO2J-820 ORCO2J-820 ORCO2J-820 ORCO2J-820 ORCO2J-820 ORCO2J-820 ORCO2J-820 ORCO2J-820 ORCO2J-820 ORCO2J-820 ORCO2J-820 ORCO2J-820 ORCO2J-820 ORCO2J-820 ORCO2J-820 ORCO2J-820 ORCO2J-820 ORCO2J-820 ORCO2J-820 ORCO2J-820 ORCO2J-820 ORCO2J-820 ORCO2J-820 ORCO2J-820 ORCO2J-820 ORCO2J-820 ORCO2J-820 ORCO2J-820 ORCO2J-820 ORCO2J-820 ORCO2J-820 ORCO2J-820 ORCO2J-820 ORCO2J-820 ORCO2J-820 ORCO2J-820 ORCO2J-820 ORCO2J-820 ORCO2J-820 ORCO2J-820 ORCO2J-820 ORCO2J-820 ORCO2J-820 ORCO2J-820 ORCO2J-820 ORCO2J-820 ORCO2J-820 ORCO2J-820 ORCO2J-820 ORCO2J-820 ORCO2J-820 ORCO2J-820 ORCO2J-820 ORCO2J-820 ORCO2J-820 ORCO2J-820 ORCO2J-820 ORCO2J-820 ORCO2J-820 ORCO2J-820 ORCO2J-820 ORCO2J-820 ORCO2J-820 ORCO2J-820 ORCO2J-820 ORCO2J-820 ORCO2J-820 ORCO2J-820 ORCO2J-820 ORCO2J-820 ORCO2J-820 ORCO2J-820 ORCO2J-820 ORCO2J-820 ORCO2J-820 ORCO2J-820 ORCO2J-820 ORCO2J-820 ORCO2J-820 ORCO2J-820 ORCO2J-820 ORCO2J-820 ORCO2J-820 ORCO2J-820 ORCO2J-820 ORCO2J-820 ORCO2J-820 ORCO2J-820 ORCO2J-820 ORCO2J-820 ORCO2J-820 ORCO2J-820 ORCO2J-820 ORCO2J-820 ORCO2J-820 ORCO2J-820 ORCO2J-820 ORCO2J-820 ORCO2J-820 ORCO2J-820 ORCO2J-820 ORCO2J-820 ORCO2J-820 ORCO2J-820 ORCO2J-820 ORCO2J-820 ORCO2J-820 ORCO2J-820 ORCO2J-820 ORCO2J-820 ORCO2J-820 ORCO2J-820 ORCO2J-820 ORCO2J-820 ORCO2J-820 ORCO2J-820 ORCO2J-820 ORCO2J-820 ORCO2J-820 ORCO2J-820 ORCO2J-820 ORCO2J-820 ORCO2J-820 ORCO2J-820 ORCO2J-820 ORCO2J-820 ORCO2J-820	MG R R R R	100Ω 1/16W J 4.7kΩ 1/16W J 4.7kΩ 1/16W J 4.7kΩ 1/16W J 0.0Ω 1/16W J 10kΩ 1/16W J 10kΩ 1/16W J 15kΩ 1/16W J 20Ω 1/16W J 220Ω 1/16W J 10kΩ 1/16W J 120kΩ 1/16W J 10Ω 3W J 33Ω 2W J 33Ω 1/2W J 22kΩ 1/2W J
	R999	QRE121J-121Y	C R	120Ω 1/2W J
	CO01 C003 C004 C006 C101 C102 C104 C105 C106 C107 C113 C114 C116 C117 C118 C119 C120 C124 C131	QETNLHM-475Z QETNLHM-106Z QETNLEM-476Z QETNLEM-476Z NCB31HK-103X	E CAP. E CAP. E CAP. C CAP.	4.7 <sub>1</sub> F 50V M 10 <sub>1</sub> F 50V M 1000F 16V M 47 <sub>1</sub> F 25V M 0.01 <sub>1</sub> F 50V K 0.01 <sub>2</sub> F 50V J 47 <sub>1</sub> F 25V M 0.01 <sub>2</sub> F 50V J 0.01 <sub>3</sub> F 50V K 0.01 <sub>4</sub> F 50V K

#### [ AV-32D503/Y ] Symbol No. <u>∧</u> Symbol No. Part No. Part Name Description Part No. Part Name CAPACITOR COIL 1000<sub>L</sub>F QETN1EM-108Z 25V QQL244K-560Z QQLZ014-R22 C626 E CAP L001 COIL QETN1HM-474Z 0.47µF L101 INDUCTOR C627 E CAP C628 QETNLEM-108Z E CAP 1000µF L113 QQL244K-4R7Z COIL 00L244K-150Z 00L244K-220Z C629 QETNLEM-108Z E CAP 1000µF 25V L131 L161 COIL INDUCTOR C636 QETN1HM-105Z E CAP 1μF 50V QQL244K-560Z QQL244K-220Z L232 L241 COIL INDUCTOR E CAP C CAP C CAP C637 OFTN1HM-1057 1uF 50V NCB31EK-104X C652 C653 0.1µF QQL244K-220Z QQL244K-220Z QQR1027-003 QQL2036-821 QQL2026-560 QQL244K-220Z QQL244K-220Z 25V L391 INDUCTOR NCB31EK-104X 0.1µF 25V INDUCTOR LINEARITY COIL INDUCTOR INDUCTOR INDUCTOR L511 L512 L521 L701 Δ C654 NCB31EK-104X $\mathsf{C}$ $\mathsf{CAP}$ 0.1μF 25V or QQLZ027-821 C CAP. C CAP. C CAP. C CAP. C CAP. 0.01µF 15pF 15pF C655 C656 C657 NCB31HK-103X NDC31HJ-150X NDC31HJ-150X 50V 50V 50V Δ L702 INDUCTOR 50V 50V 50V C658 C700 NDC31HJ-150X 15pF 1000pF K M QQL244K-220Z QQL244K-220Z QQL244K-220Z L703 L704 INDUCTOR INDUCTOR NCB31HK-102X 0ETN1HM-106Z C701 10'րF 10'րF L705 INDUCTOR C702 OETNIHM-106Z E CAP. 50V M QQL 26AK-470Z L931 COTI QETN1HM-106Z E CAP C703 10 uF 50V М QQL 26AK-470Z QQR0582-001Z QETNICM-107Z E CAP C704 100µF FERRITE BEADS C705 NCB31HK-103X $\mathsf{C}$ $\mathsf{CAP}$ 0.01µF 50V QETN1HM-105Z NDC31HJ-220X NDC31HJ-220X E CAP. C CAP. C CAP 1μF 22pF 22pF C706 C708 50V 50V M DIODE C709 50V SI DIODE SI DIODE SI DIODE OFTN1CM-1077 E CAP D305 1SS133-T2 C711 100µF 16V М C CAP. C CAP. C CAP. 155133-T2 155133-T2 D306 D307 NCB31HK-103X C712 0.01uF 50V C716 C721 C726 QETN1HM-106Z 10μF 0.01μF 560pF 50V M K J SI DIODE SI DIODE SI DIODE D308 1SS133-T2 NCB31HK-103X NDC31HJ-561X 50V 50V D309 D310 155133-T2 155133-T2 NCB31HK-103X C728 C CAP 0.01µF 50V D352 D353 MTZJ9.1C-T2 1SS133-T2 Z DIODE SI DIODE C807 QETNLAM-477Z E CAP 470uF 100 C813 C815 NCB31HK-102X NCB31HK-103X C CAP 1000pF 0.01μF 50V 50V MTZJ3.3A-T2 1N4003-T2 MTZJ75-T2 1SS133-T2 RH3G-F1 Z DIODE SI DIODE Z DIODE D354 D421 D422 D432 C853 QETN1CM-227Z E CAP 220µF 16V C854 QETN1CM-227Z E CAP 220µF SI DIODE E CAP E CAP 220μF 470μF C856 QETN1CM-227Z 16V D501 SI DIODE SI DIODE SI DIODE C857 QETN1CM-477Z 16V М RU3AM-LFC4 Δ D502 MF CAP. MPP CAP QFZ9072-104 or QFZ9075-104 0.1μFAC275V 0.1μFAC275V C901 C901 D521 D523 RH1S-T3 RGP10J-5025-T3 Δ D525 D526 15581-T5 15581-T5 SI DIODE C902 QFZ9072-473 MF CAP 0.047μFAC275V or 0FZ9075-473 0CZ9054-102 0CZ9054-102 C902 C904 C905 MPP CAP C CAP. C CAP. 0.047μFAC275V 1000pFAC250V 1000pFAC250V 1SR124-400A-T2 MTZJ5.1C-T2 MA4068N/Z1/-T2 D527 SI DIODE Z DIODE Z DIODE SI DIODE SI DIODE Z DIODE C CAP E CAP C CAP C CAP M CAP ٨ D531 1000pFAC250V 470µF 200V 1000pFAC250V QCZ9054-102 QEZ0169-477 C906 C907 D535 D537 D601 1SS133-T2 QCZ9079-102 or QCZ9054-102 QCZ0340-222 QFLC1HJ-471Z 1SR35-400A-T2 MTZJ9.1C-T2 C908 C908 C912 C913 1000 FAC 250V Z DIODE Z DIODE MTZJ9.1C-T2 MTZJ9.1C-T2 1SS133-T2 D602 D603 2200pF 470pF Z DIODE SI DIODE SI DIODE Z DIODE 50 V D653 QETN1HM-107Z NDC31HJ-331X NCB31HK-182X E CAP C CAP C CAP C914 C916 C917 100µF 50V D654 D700 155133-T2 MTZJ5.6B-T2 330pF 1800pF 155133-T2 MTZJ5.6B-T2 MTZJ5.6B-T2 155133-T2 MTZJ5.6B-T2 SI DIODE Z DIODE D701 NCB21HK-104X C CAP C918 0.1μF 50V D703 C919 QFP32GJ-103 PP CAP 0.01 F 400V Z DIODE SI DIODE E CAP C931 QEZ0203-107 100μF 160V М D705 C933 C934 QETNICM-108Z NDC31HJ-151X E CAP 1000μF 150pF 16V 50V M Z DIODE D707 D708 MTZJ5.6B-T2 MTZJ5.6B-T2 Z DIODE Z DIODE QETNLEM-108Z QCZ0340-102 E CAP C CAP C935 C937 1000µF 1000pF 25V 2kV D709 D721 D722 MTZJ5.6B-T2 1SS133-T2 1SS133-T2 Z DIODE SI DIODE SI DIODE QETNLCM-477Z QCB32HK-152Z QCB32HK-102Z E CAP C CAP C CAP C938 C939 470μF 16V 1500pF 1000pF 500V 500V Z DIODE Z DIODE BRIDGE DIODE SB DIODE SI DIODE C941 MTZJ5.6B-T2 MTZJ5.6B-T2 GSIB460-S1 MA700A-T2 D723 D810 QEHR1HM-105Z E CAP ĺμF C942 50V D901 D910 C951 QETNLEM-477Z E CAP 470µF 25V Δ E CAP E CAP 220μF 100μF 47μF C952 C971 QETNLCM-227Z QETNLCM-107Z 16V RGP10J-5025-T3 RGP10J-5025-T3 RGP10J-5025-T3 1SS133-T2 SARS01-T2 D911 <u>∧</u> <u>∧</u> 16V SI DIODE SI DIODE SI DIODE SI DIODE D912 C972 QETNLEM-476Z E CAP 25V D913 D914 QETNLHM-106Z QCZ9052-102 E CAP C CAP C973 10μF 50V 1000pFAC125V M QCZ9074-103 (998 0.01µFAC250V М Δ D917 D918 MTZJ30A-T2 MTZJ5.1C-T2 Z DIODE Z DIODE C CAP. C999 QCZ9074-103 0.01µFAC250V SI DIODE SI DIODE SI DIODE SI DIODE Z DIODE D920 D931 1SS133-T2 RU30A-F1 TRANSF D933 D935 D941 RU3YX-LFC4 RU3YX-LFC4 MTZJ33A-T2 QQR0907-001 CE42034-002 QQH0121-001 QQS0138-001 T111 HOR DRIVE TRANS FB TRANSF SW TRANSF T501 T502 D945 D952 D953 Z DIODE SI DIODE SI DIODE SI DIO DE MTZJ9.1B-T2 1SS133-T2 **∆ ∆** T971 155133-T2 1N4002G-T2

Description

56<sub>µ</sub>H K

4.7<sub>µ</sub>H

15µH K

56µH

47<sub>11</sub>H K

47uH K

54 No. 51947

or 00T0355-001

D954

POWER TRANSF

T951

00T0372-001

# [ AV-32D503/Y ]

<u>∧</u> Symbol No.	Part No.	Part Name	Description
DIO	DE		
D955 D956 D957 D972 D973	1N4002G-T2 1N4002G-T2 1N4002G-T2 MTZJ15C-T2 1SS133-T2	SI DIODE SI DIODE SI DIODE Z DIODE SI DIODE	

### TRANSISTOR

0001 0101 0101 0131 0211 0232 0233 0352 0431 0501 △ 0511 0532 0542 0542 0623 0700 0701 0705 0971	UN2712-X 2SC5083/L-P/-T 2SB709A/QR/-X 2SD601A/QR/-X 2SD79A/QR/-X 2SD79A/QR/-X 2SD601A/QR/-X	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR DIGI TRANSISTOR	H.OUT
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#### IC

	1 C			
Δ	IC101 IC201 IC421 IC601 IC621	M52342SP TM8812CSBNG3U68 LA7841 TA1287F-X LA4485	IC IC IC IC	
	IC702 IC703 IC704	AT24C08-32D503 S-80840ANY-T AN78L05-T	IC IC IC	(SERVICE)
	IC852 IC853	AN7809F AN7805F	ĬČ IC	or BA17809T or BA17805T
∆ ∆	IC911 IC921	STR-G6624/F8 SE135N	IC IC	

### OTHERS

	_							
<b>AAAAAA</b>	CF001 CF131 CF161 CF161 CF160 CN002 CN003 CN005 CN007 CN07 CN07 CN07 CN07 F901 F905 F901 F906 FC901 FC	QAX0849-001 QAX0639-0012 QAX0642-0017 QBS1605J1-35 QGB1505J1-35 QGB2501C5-052 QGA2501C5-052 QGA2501C5-077 QMPD890-200-JS ICP-N70-T QMF007-5R0J1 QMF02049-5R0Z-E CEM002-001Z CEM002-001Z QRZ9017-4R7 QRZ9017-4R7 QRZ9017-4R7 QRZ9017-001 QRX0621-002Z QRX0621-002Z QRX0682-001Z QQRX0682-001Z QQRX199-001	C TRAP C TRAP C TRAP C FILTER B TO B CONNE B TO B CONNE W TO B CONNE W TO B CONNE W TO B CONNE POWER CORD C PROTECTOR FUSE FUSE FUSE FUSE FUSE FUSE FUSE FUSE	5.0A	or QI	MF51U	0-200- 1-5R0 5 1/4W 1/2W	

<u>∧</u> Symbol No.	Part No.	Part Name	Description
ОТН	ERS		
△ LF901 △ PC921 △ RY951 S421 SF101 △ TH901 △ TU001 △ VA901 X701	QQR1085-003 TLP421F/D4-GR/ QSK086-001 QSL4A13-C02 QAX0723-001 QAD0132-3R0 QAU072-001 ERZVL0V621CS QAX0717-001Z	LINE FILTER IC(MOTO COUPLE RELAY OR LEVER SWITCH SAW FILTER P THERMISTOR TUNER ZNR CRYSTAL	or QR0527-003 QSK0130-001,QSK0085-001

### CRT SOCKET P.W. BOARD ASS'Y (SGE-3004A-M2)

CRT SOC	KET P.W. B	OARD ASS'Y (	SGE-3004A-M2)
<u>∧</u> Symbol No.	Part No.	Part Name	Description
RES	ISTOR		
R3354 R3355 R3355 R3357 R3359 R3360 R3361 R3364 R3366 R3366 R3377 R3377 R3377 R3377 R3377 R3377 R3377 R3377 R3377 R3378 R3377	NRSA63J-221X NRSA63J-221X NRSA63J-221X NRSA63J-101X NRSA63J-101X NRSA63J-101X ORZ0111-152 ORZ0111-152 ORZ029J-103 ORG029J-103 ORG029J-103 NRSA63J-182X NRSA63J-182X NRSA63J-182X NRSA63J-221X NRSA63J-221X NRSA63J-221X NRSA63J-221X NRSA63J-221X ORSA63J-102X ORSA63J-102X ORSA63J-102X ORSA63J-102X ORSA63J-102X ORSA63J-102X ORSA63J-102X ORSA63J-102X ORSA63J-102X ORSA63J-102X ORSA63J-102X	MG R MG R MG R MG R MG R MG R C R C R C R C M MG R MG	22Ω 1/16W J 22Q 1/16W J 22Ω 1/16W J 10Ω 1/16W J 10Ω 1/16W J 10Ω 1/16W J 1.5kΩ 1/2W K 1.5kΩ 1/2W K 1.5kΩ 1/2W K 1.6W 2W J 10kΩ 2W J 10kΩ 2W J 1.8kΩ 1/16W J 2.0Ω 1/16W J 3.9kΩ 1/16W J 1.5kΩ 1/16W J 1.5kΩ 1/16W J 1.5kΩ 1/16W J
CAP	ACITOR		
C3355 C3355 C3356 C3357 Δ C3382 C3391 C3392	NDC31HJ-331X NDC31HJ-331X NDC31HJ-391X QETNLCM-107Z QCZ0121-102 QETMLAM-227Z NDC31HJ-101X	C CAP. C CAP. C CAP. E CAP. C CAP. E CAP. C CAP.	330gF 50V J 330gF 50V J 390gF 50V J 100gF 16V M 100gF 3kV Z 220gF 10V M 100gF 50V J
COI	L		
L3381	QQL244K-101Z	PEAKING COIL	
DIO	DE		
D3391	155133-T2	SI DIODE	
TRAI	NS I STO	R	
03351 03352 03353 03391	2SC4544-LB 2SC4544-LB 2SC4544-LB 2SA933AS/QR/-T	POW TRANSISTOR POW TRANSISTOR POW TRANSISTOR TRANSISTOR	
ОТНІ	ERS		
CN3004 CN3005 ∆ SK3351	QJB003-054010 WJA0027-002A QNZ0537-001	SIN ID C-B WIRE E-S ID WIRE CRT SOCKET	or QNZ0536-001

### [ AV-32D503/Y ]

### PIP P.W. BOARD ASS'Y (SGE-4001A-M2)

Refer to PARTS LIST in page 44 for this P.W. board

### AV SELECTOR P.W. BOARD ASS'Y (SGE-5001A-M2)

Refer to PARTS LIST in page 45 for this P.W. board

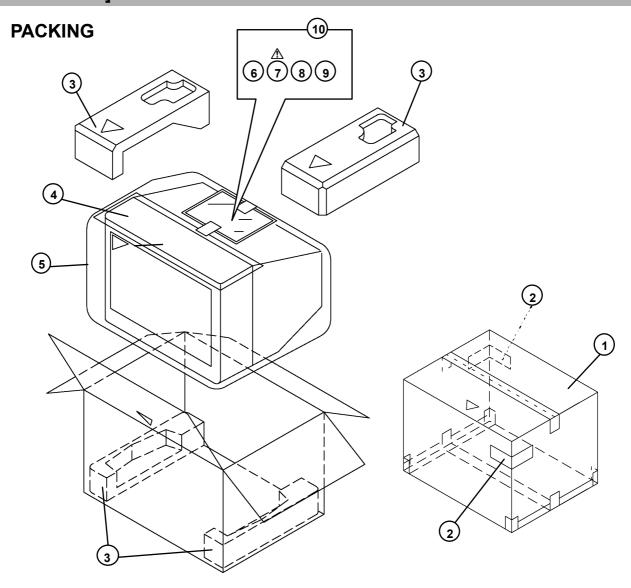
#### FRONT AV IN P.W. BOARD ASS'Y (SGE-6001A-M2)

Refer to PARTS LIST in page 46 for this P.W. board

# FRONT CONTROL P.W. BOARD ASS'Y (SGE-7001A-M2)

Refer to PARTS LIST in page 46 for this P.W. board

# [ AV-32D503]



### **PACKING PARTS LIST**

$\triangle$	Ref.No.	Part No.	Part Name	Description
$\triangle$	1 2 3 4 5 6 7	L C10058-009A CM36616-001-A L C10365-001D CP30611-A02 AP3756-11 RM-C251-1H L CT1128-001A-A	PACKING CASE CORNER LABEL CUSHION ASSY TOP COVER POLY COVER REMOCON UNIT INST BOOK	2pcs in 1set 4pcs in 1set
	8 9 10	BT-51028-2Q BT-52006-1 QPA02503505	REGISTRATION CARD WARRANTY CARD POLY BAG	

# **REMOTE CONTROL UNIT PARTS LIST (RM-C251-1H)**

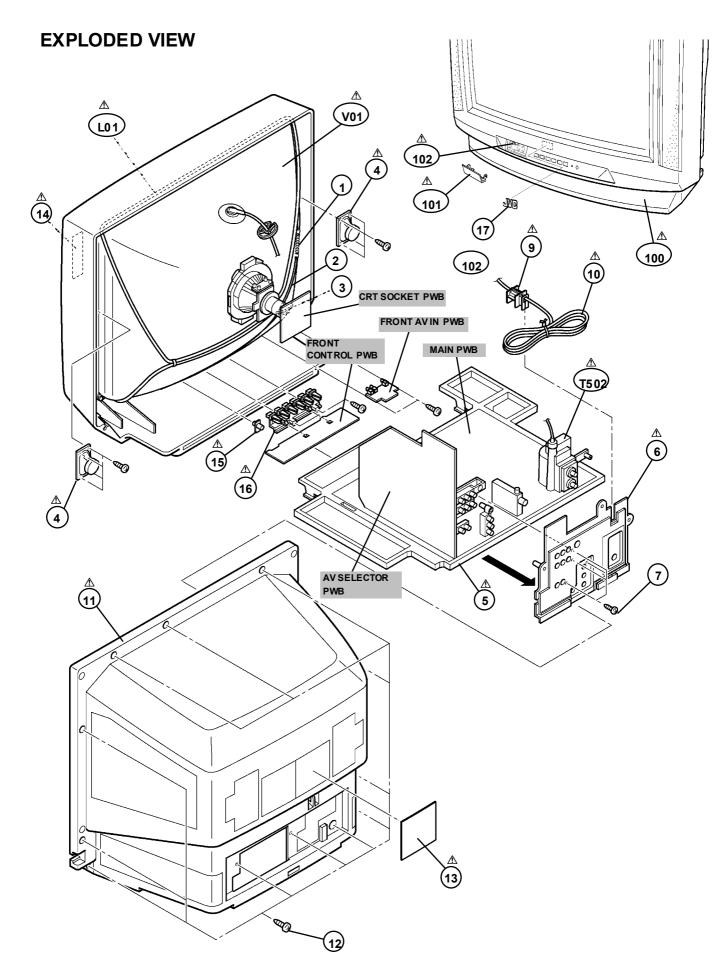
⚠ Ref.No.	Part No.	Part Name	Description
	U R7 7E C 06 03	BATTERY COVER	
			-

# [ AV-32D303 / AV-32D203 ]

# **EXPLODED VIEW PARTS LIST**

[ AV-32D30	03/M, <b>AV-32D3</b> 03/	'R, <b>AV-32D303</b> /Y]	: SILVER
<u>∧</u> Ref.No.	Part No.	Part Name	Description
↑ V01 ↑ V01 ↑ V01 ↑ L01 ↑ T502 1 2 3	A 80 JU A0 6 1X 0 6 A 80 AE J15 X0 1 A 80 AK B5 0 X0 4 C EL D0 6 6 - 00 2 JA Q 0H 01 2 1 - 00 1 A 48 45 7 - 1 W JY 00 1 6 - 00 2 A W JY 00 1 3 - 00 4 A	ITC ITC ITC ITC DEG COIL FB TRANSF SPRING E-BRAIDED ASSY E-BRAIDED ASSY	[AV-32D303/M] Inc.DY.PC MAGNET,WEDGE [AV-32D303/R] Inc.DY.PC MAGNET,WEDGE [AV-32D303/Y] Inc.DY.PC MAGNET,WEDGE
<ul> <li>★ 4</li> <li>★ 5</li> <li>★ 6</li> <li>7</li> <li>★ 9</li> <li>★ 10</li> <li>★ 11</li> <li>★ 12</li> <li>★ 13</li> <li>★ 14</li> <li>★ 15</li> <li>★ 16</li> <li>17</li> <li>★ 100</li> <li>★ 101</li> <li>★ 102</li> </ul>	CEBSS12D-04KJ2 LC10883-001C-A LC20899-004A-A QYSBSB3010Z LC20106-001D-A QMPD390-200-JS LC10308-003C-A QYSBSFG4016Z GQ30032-001A-A GQ30034-001B-A LC30191-002A-A LC20217-005B-A CM48006-007-C LC10641-005B-A LC20409-005B-A PU60109	SPEAKER CHASSIS BASE TERMINAL BOARD TAP SCREW POWER CORD CLAMP POWER CORD  REAR COVER TAP SCREW  RATING LABEL WARNING LABEL REMOCON LENS CONTROL KNOB JVC MARK FRONT CABI. ASSY DOOR CATCHER	or QAS0101-001(x2)SP01,SP02  (x4)  or QMPD200-200-JC Within MAIN PWB(CN0PW)  (x12)  (SILVER) (SILVER) (SILVER) (SILVER) (SILVER)

[ AV-32D2	03/м, AV-32D203	/R, <b>AV-32D203</b> /Y]	: BLACK
⚠ Ref.No.	Part No.	Part Name	Description
↑ V01 ↑ V01 ↑ V01 ↑ L01 ↑ T502 1 2 3	A 80 JU A0 6 1X 0 6 A 80 AE J1 5 X0 1 A 80 AK B5 0 X0 4 C EL D0 6 6 - 00 2 JA Q 0H 01 2 1 - 00 1 A 48 45 7 - 1 W JY 00 1 6 - 00 2 A W JY 00 1 3 - 00 4 A	ITC ITC ITC OBG COIL FB TRANSF SPRING E-BRAIDED ASSY E-BRAIDED ASSY	[AV-32D203/M] Inc.DY.PC MAGNET,WEDGE [AV-32D203/R] Inc.DY.PC MAGNET,WEDGE [AV-32D203/Y] Inc.DY.PC MAGNET,WEDGE
△ 4 △ 5 △ 6 7 △ 9 △ 10 △ 11	CEBSS12D-04KJ2 LC10883-001C-A LC20899-004A-A QYSBSB3010Z LC20106-001D-A QMPD390-200-JS LC10308-003C-A	SPEAKER CHASSIS BASE TERMINAL BOARD TAP SCREW POWER CORD CLAMP POWER CORD	or QAS0101-001( x2)SP01,SP02  (x4)  or QMPD200-200-JC Within MAIN PWB(CNOPW)
12 13 14 15 16 17 17 100 101 102	QYSBSFG4016Z  GQ30032-001A-A GQ30034-001B-A LC30191-002A-A LC20217-001C-A CM48006-006-C LC10641-001G-A LC20409-001D-A PU60109	TAP SCREW  RATING LABEL WARNING LABEL REMOCON LENS CONTROL KNOB JVC MARK FRONT CABI. ASSY DOOR CATCHER	(X12)  (BLACK) (BLACK) (BLACK) (BLACK) Inc.No.101~102 (BLACK)



# [ AV-32D303/M, AV-32D203/M]

### PRINTED WIRING BOARD PARTS LIST

### MAIN P.W. BOARD ASS'Y (SGE-1027A-M2)

ymbol No.	Part No.	Part Name	Description
RES	STOR		
002	NRSA63J-OROX	MG R	0.0Ω 1/16W J
003	NRSA63J-101X	MĠ R	100Ω 1/16W J
.004	NRSA63J-101X	MG R	100 <sub>Ω</sub> 1/16W J
.005	NRSA63J-OROX	MG R	0.0Ω 1/16W J
.008	NRSA63J-820X	MG R	82Ω 1/16W J
.009	NRSA63J-682X	MG R	6.8kΩ 1/16W J
101	NRSA63J-562X	MG R	5.6kΩ 1/16W J
102	NRSA63J-182X	MG R	1.8kΩ 1/16W J
103	QRE121J-101Y	C R	100Ω 1/2W J
104	NRSA63J-180X	MG R	18Ω 1/16W J
105	NRSA63J-270X	MG R	27Ω 1/16W J
111	NRSA63J-394X	MG R	390kΩ 1/16W J
112	NRSA63J-334X	MG R	330kΩ 1/16W J
113	NRSA63J-101X	MG R	100Ω 1/16W J
115	NRSA63J-101X	MG R	100Ω 1/16W J
116	NRSA63J-680X	MG R	68Ω 1/16W J
117	NRSA63J-273X	MG R	27kΩ 1/16W J
		MG R	
118	NRSA63J-223X		22kΩ 1/16W J
131	NRSA63J-102X	MG R	1kΩ 1/16W J
132	NRSA63J-331X	MG R	330Ω 1/16W J
133	NRSA63J-821X	MG R	820Ω 1/16W J
134	NRSA63J-561X	MG R	560Ω 1/16W J
135	NRSA63J-102X	MG R	1kΩ 1/16W J
161	NRSA63J-332X	MG R	3.3kΩ 1/16W J
162	NRSA63J-OROX	MG R	0.0Ω 1/16W J
163	NRSA63J-223X	MG R	22kΩ 1/16W J
164	NRSA63J-102X	MG R	1kΩ 1/16W J
165	NRSA63J-223X	MG R	22kΩ 1/16W J
166	NRSA63J-103X	MG R	10kΩ 1/16W J
167	NRSA63J-102X	MG R	1kΩ 1/16W J
168	NRSA63J-101X	MG R	100Ω 1/16W J
169	NRSA63J-561X	MG R	560Ω 1/16W J
171	NRSA63J-103X	MG R	10kΩ 1/16W J
201	NRSA63J-223X	MG R	22kΩ 1/16W J
212	NRSA63J-272X	MG R	2.7kΩ 1/16W J
215	NRSA63J-562X		
216	NRSA63J-562X	MG R MG R	5.6kΩ 1/16W J 5.6kΩ 1/16W J
217	NRSA63J-102X	MG R	
		MG R	
222	NRSA63J-OROX		0.0Ω 1/16W J
227	NRSA63J-104X	MG R	100kΩ 1/16W J
231	NRSA63J-182X	MG R	1.8kΩ 1/16W J
237	NRSA63J-392X	MG R	3.9kΩ 1/16W J
238	NRSA63J-473X	MG R	47kΩ 1/16W J
241	NRSA63J-332X	MG R	3.3kΩ 1/16W J
243	NRSA63J-152X	MG R	1.5kΩ 1/16W J
281	NRSA63J-182X	MG R	1.8kΩ 1/16W J
282	NRSA63J-392X	MG R	3.9kΩ 1/16W J
283	NRSA63J-681X	MG R	680Ω 1/16W J
286	NRSA63J-472X	MG R	4.7kΩ 1/16W J
287	NRSA63J-101X	MG R	100 <u>Ω</u> 1/16W J
288	NRSA63J-471X	MG R	470Ω 1/16W J
289	NRSA63J-154X	MG R	150kΩ 1/16W J
290	NRSA63J-561X	MG R	560Ω 1/16W J
292	NRSA63J-124X	MG R	
293	NRSA63J-224X	MG R	120kΩ 1/16W J 220kΩ 1/16W J
301	NRSA63J-222X	MG R	2.2kΩ 1/16W J
302	NRSA63J-222X	MG R	2.2kΩ 1/16W J
303	NRSA63J-222X	MG R	2.2kΩ 1/16W J
	NRSA63J-222X NRSA63J-101X		
304		MG R	100Ω 1/16W J
305 206	NRSA63J-101X	MG R	100Ω 1/16W J
306	NRSA63J-101X	MG R	100Ω 1/16W J
354	NRSA63J-OROX	MG R	0.0 <sub>Ω</sub> 1/16W J
355	NRSA63J-OROX	MG R	0.0 <u>Ω</u> 1/16W J
356	NRSA63J-123X	MG R	12kΩ 1/16W J
359	NRSA63J-103X	MG R	10kΩ 1/16W J
360	NCB31HK-103X	C CAP.	0.01µF 50V K
421	NRSA63J-822X	MG R	8.2kΩ 1/16W Ĵ
423	NRSA63J-393X	MG R	39kΩ 1/16W J
	NRSA63J-393X	MG R	39kΩ 1/16W J
		TIM IN	C MOT/T NVCC
424 426	NRSA63J-183X	MG R	18kΩ 1/16W J

Δ	Symbol No.	Part No.	Part Name	Description
	RESI	STOR		
<u>A</u>	R427 R429 R430 R431 R431 R432 R433 R434 R435 R441 R447 R448 R449 R501 R502 R503 R504 R505 R511 R512 R523 R526	QRT029J-1R5 NRSA63J-272X NRSA63J-272X NRSA63J-152X NRSA63J-152X NRSA63J-152X NRSA63J-1681X QRE029J-181 QRE121J-102Y NRSA63J-0R0X NRSA63J-104X NRSA63J-104X NRSA63J-103X NRSA63J-103X QRE021J-103Y QRE021J-103Y QRE021J-102 QRE021J-102 QRE021J-220Y QRE021J-220Y QRE121J-220Y QRE121J-220Y QRE121J-272Y	MF R MG	1.5Ω 2w J 2.7kΩ 1/16W J 0.0Ω 1/16W J 1.5kΩ 1/16W J 180Ω 2w J 1kΩ 1/2W J 0.0Ω 1/16W J 180Ω 2w J 1kΩ 1/2W J 0.0Ω 1/16W J 100kΩ 1/16W J 10kΩ 1/16W J 10kΩ 1/16W J 270Ω 1/16W J 270Ω 1/16W J 10kΩ 1/2W J 10kΩ 3w J 22Ω 1/2w J 680Ω 1/2w J 680Ω 1/2w J 33kΩ 1/2w J 680Ω 1/2w J 33kΩ 1/4w J 2.7kΩ 1/4w J
<u>A</u> <u>A</u>	R527 R528 R529 R531 R532 R533 R534 R535 R537 R538 R543 R544 R545 R546 R547 R548 R554 R555	QRE121J-154Y QRE121J-154Y NRSA63J-331X QRJ146J-391X NRSA63J-273X NRSA63J-123X NRVA02D-222X NRVA02D-752X NRSA63J-333X QRE121J-122Y QRE121J-392Y QRE121J-392Y QRE121J-822Y NRSA63J-331X NRSA63J-104X QRE121J-152Y QRL039J-180 QRK126J-150X QRK126J-150X QRK126J-150X	C R C R MG R C C R MG R MG R MG R MG R MF R MF R MF R MG R C R C R C R C R MG R C R MG R MG R C R MG	150kΩ 1/2w J 150kΩ 1/2w J 150kΩ 1/2h J 330Ω 1/16w J 27kΩ 1/16w J 12kΩ 1/16w J 12kΩ 1/16w J 2.2kΩ 1/10w D 7.5kΩ 1/10w D 33kΩ 1/16w J 1.2kΩ 1/10w J 8.2kΩ 1/2w J 3.9kΩ 1/2w J 3.9kΩ 1/2w J 3.9kΩ 1/2w J 3.36Ω 1/16w J 1.5kΩ 1/16w J 1.5kΩ 1/16w J 1.5kΩ 1/16w J 330Ω 1/16w J 1.5kΩ 1/16w J 330Ω 1/16w J 330Ω 3w J 330Ω 3w J 330Ω 2w J
	R601 R602 R603 R610 R611 R612 R621 R622 R623 R624 R626 R627 R631 R632 R638 R639 R651 R639 R651 R700 R701 R702 R704 R705 R706 R707 R708 R708 R709 R709 R715 R718	NRSA63J-750X NRSA63J-750X NRSA63J-750X NRSA63J-0ROX NRSA63J-0ROX NRSA63J-0ROX NRSA63J-681X NRSA63J-681X NRSA63J-681X NRSA63J-681X NRSA63J-223X NRSA63J-223X NRSA63J-223X NRSA63J-223X NRSA63J-223X NRSA63J-0ROX NRSA63J-0ROX NRSA63J-0ROX NRSA63J-0ROX NRSA63J-10DX NRSA63J-10DX NRSA63J-10DX NRSA63J-10DX NRSA63J-10DX NRSA63J-10DX NRSA63J-10DX NRSA63J-10DX NRSA63J-10DX NRSA63J-10DX NRSA63J-10DX NRSA63J-10DX NRSA63J-10DX NRSA63J-10DX NRSA63J-10DX NRSA63J-10DX NRSA63J-10DX NRSA63J-10DX NRSA63J-10DX NRSA63J-10DX NRSA63J-10DX NRSA63J-10DX NRSA63J-10DX NRSA63J-10DX NRSA63J-10DX NRSA63J-10DX NRSA63J-10DX NRSA63J-10DX NRSA63J-10DX NRSA63J-10DX NRSA63J-10DX	MG R	75Ω 1/16W J 75Ω 1/16W J 75Ω 1/16W J 75Ω 1/16W J 0.0Ω 1/16W J 0.0Ω 1/16W J 0.0Ω 1/16W J 6.8KΩ 1/16W J 6.8KΩ 1/16W J 6.8KΩ 1/16W J 2.KΩ 1/16W J 0.0Ω 1/16W J 1.KΩ 1/16W J

# [ AV-32D303/M, AV-32D203/M]

Δ Symbol N	o. Part No.	Part Name	Description
	SISTOR	Tare Name	beset iperon
R721 R728 R729 R731 R732 R733 R734 R739 R740 R764 R765 R766 R767 R769 R772 R811 R812 R812 R816 R821 R821 R821 R812 R816 R821 R812 R816 R821 R817 A R909 R911 R912 R913 R914 R918 R919 R924 R930 R918 R919 R924 R930 R940 R941 R950 R951 R952 R953 R977 R978 R978 R977 R978 R979 R978 R979 R979	NRSA63J-102X NRSA63J-101X NRSA63J-101X NRSA63J-101X NRSA63J-101X NRSA63J-101X NRSA63J-101X NRSA63J-101X NRSA63J-472X NRSA63J-103X NRSA63J-21X NRSA63J-221X NRSA63J-221X NRSA63J-221X NRSA63J-221X NRSA63J-221X NRSA63J-221X NRSA63J-102X NRSA63J-102X NRSA63J-102X NRSA63J-102X NRSA63J-102X NRSA63J-102X NRSA63J-102X NRSA63J-102X ORCOSSASSASSASSASSASSASSASSASSASSASSASSASSA	MGG R R R R R R R R R R R R R R R R R R	1kQ 1/16W J 1kQ 1/16W J 22kQ 1/16W J 100Ω 1/16W J 100Ω 1/16W J 100Ω 1/16W J 4.7kQ 1/16W J 4.7kQ 1/16W J 4.7kQ 1/16W J 20Ω 1/16W J 220Ω 1/16W J 10kQ 1/16W J 10Q 1/2W J 10Q 1/16W J 11Q 1/2W J
CAI	PACITOR	<b>.</b>	
C001 C003 C004 C006 C101 C102 C104 C105 C106 C107 C113 C114 C116 C117 C118 C119 C120 C124 C131 C161 C163	QETNLHM-475Z QETNLHM-106Z QETNLCH-108Z QETNLEH-476Z NCB3LHK-103X NCB3LHK-103X NCB3LHK-103X QETNLEH-476Z NCB3LHK-103X QETNLEH-476Z NCB3LHK-103X NCB3LHK-103X QETNLEH-476Z NCB3LHK-103X QETNLEH-476Z NCB3LHK-103X QETNLEH-476Z NCB3LHK-103X NDC3LHJ-68LX QETNLHM-474Z NCB3LHK-103X	E CAP. E CAP. E CAP. C CAP.	4.7µF 50V M 100µF 50V M 1000µF 16V M 47µF 25V M 0.01µF 50V K 0.01µF 50V J 47µF 25V M 0.01µF 50V J 47µF 50V J 0.01µF 50V K 6800µF 50V J 0.01µF 50V K 6800µF 50V J 0.01µF 50V K 0.01µF 50V K

<u></u> ∆ Sy	mbol No	. Part No.	Part Name	Description
-	AP	ACITOR		
C1111222222222222222222222222222222222	645 666 602 603 603 604 605 606 607 607 608 608 609 609 609 609 609 609 609 609	NDC31HJ-470X NCB31HK-103X NCB31HK-103X NCB31HK-103X NCB31HK-105Z NCB31HK-152X QENC1CM-106Z NDC31HJ-100X QETM1HM-106Z QFVF1HJ-104Z NCB31HK-103X NCB31HK-103X NCB31HK-103X NCB31HK-103X NCB31HK-103X QETM1HM-225Z QETM1CM-107Z NCB31HK-103X QETM1CM-107Z QETM1CM-107Z NCB31HK-103X QETM1CM-107Z QETM1CM-105Z QETM1CM-107Z QETM1CM-105Z QETM1CM-107Z QETM1	C C C E C E C E MF C C C C E E C C E C E C E C E C E C E	47pF 50V J 0.01μF 50V K 0.01μF 50V K 10μF 50V M 1500F 50V J 10μF 50V J 10μF 50V J 0.01μF 50V J 0.01μF 50V K 68pF 50V J 0.01μF 50V K 100μF 16V M 0.01μF 50V K 10μF 16V M 0.01μF 50V K 10μF 50V M 10μF 16V M 10μF 16V M 10μF 16V M 10μF 50V K 10μF 50V J 0.56μF 25V J 0.56μF 25V J 0.56μF 25V J 0.6μF 50V J 0.1μF 50V M 100μF 50V K

# [ AV-32D303/M, AV-32D203/M ]

Δ	Symbol No.	Part No.	Part Name	Description
_	COIL			2030.190.00.
	L701 L702 L703 L704 L705 L931 L933 L940	QQL244K-220Z QQL244K-220Z QQL244K-220Z QQL244K-220Z QQL2644K-220Z QQL26AK-470Z QQL26AK-470Z QQR0582-001Z	INDUCTOR INDUCTOR INDUCTOR INDUCTOR INDUCTOR COIL FERRITE BEADS	47 <sub>1</sub> Н К 47 <sub>1</sub> Н К
	DIOD	ÞΕ		
Δ Δ Δ Δ Δ	D305 D306 D307 D308 D309 D310 D352 D353 D354 D422 D432 D501 D502 D521 D523 D526 D527 D529 D531 D533 D537 D601 D602 D603 D700 D701 D703 D704 D705 D706 D707 D709 D708 D709 D709 D709 D709 D710 D910 D911 D911 D912 D913 D914 D915 D917 D918 D919 D919 D919 D919 D919 D910 D911 D911	155133-T2 155133-T2 155133-T2 155133-T2 155133-T2 155133-T2 177.9.1C-T2 155133-T2 177.9.1C-T2 177.75-T2 177.75-T2 177.75-T2 17513-T2 177.75-T2 17513-T2 177.75-T2 17513-T2 177.75-T2 177.75-T3 177.75-T2 177.7	SI DIODE	
_	TRAN	SISTOR	₹	
	0001 0101 0131 0161 0211	UN2212-X 2SC5083/L-P/-T 2SB709A/QR/-X 2SD601A/QR/-X 2SD601A/QR/-X	DIGI TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	

### [ AV-32D303/M, AV-32D203/M ]

⚠ Symbol No.	Part No.	Part Name	Description
TRAN	NS I STO	R	
Q232 Q233 Q352 Q431 Q501	25D601A/QR/-X 25D601A/QR/-X 25D601A/QR/-X UN2212-X 25C4212/71/ 25D2645-YD 25C2785/JH/-T 25B709A/QR/-X 25B709A/QR/-X 25D108/OY/-IB 25D601A/QR/-X UN2212-X 25B709A/QR/-X 25D1383K/AB/-X 25D1383K/AB/-X	TRANSISTOR TRANSISTOR TRANSISTOR DIGI TRANSISTOR POWER TRANSISTO SI TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR DIGI TRANSISTOR	Н.ОИТ
IC			
IC101 IC201 ▲ IC421 IC621 IC702 IC703 IC704	M52342SP TM8812CSBNG3U68 LA7841 LA4485 AT24C08-32D503 S-80840ANY-T AN78L05-T	IC IC IC IC IC IC	(SERVICE)
IC852 IC853 △ IC911 △ IC921	AN7809F AN7805F STR-G6624/F8 SE135N	IC IC IC	or BA17809T or BA17805T
ОТНЕ	ERS		_
CF001 CF131 CF161 CN004 CN005 CN007 CN007 CN007 CN007 CN07 A CP932 A CP932 A F901 A F905 FC900 FC900 FC900 FC900 FC901 J810 K401 K401 K401 K401 K401 K401 K401 K4	QAX0349-001 QAX0639-0017 QAX0639-0017 QAX0642-0017 QGB1505J1-35 QGA2501C5-057 QGA2501C5-057 QGA2501C5-075 ICP-N70-T ICP-N70-T ICP-N70-T ICP-N70-T QMF2090-20017 CEM002-0017 CEM002-0017 CEM002-0017 QR2911-470 QNNG301-001 QR2911-470 QNNG301-001 QRX0621-0027 QQR0582-0017	C TRAP C TRAP C TRAP C FILTER B TO B CONNE W TO B CONNE W TO B CONNE POWER CORD C PROTECTOR FUSE FUSE CLIP FERE FERE FERE FERE FERE FERE FERE FER	or QMPD200-200-JC 5.0A or QMF51U1-5R0-J8 5.0A 4.7 Ω 1/4W J 47Ω 1/2W J  or QQR0527-003 Q\$K0130-001, Q\$K0085-001

### CRT SOCKET P.W. BOARD ASS'Y (SGE-3006A-M2)

Refer to PARTS LIST in page 43 for this P.W. board

### AV SELECTOR P.W. BOARD ASS'Y (SGE-5001A-M2)

Refer to PARTS LIST in page 45 for this P.W. board

### FRONT AV IN P.W. BOARD ASS'Y (SGE-6001A-M2)

Refer to PARTS LIST in page 46 for this P.W. board

# FRONT CONTROL P.W. BOARD ASS'Y (SGE-7001A-M2)

Refer to PARTS LIST in page 46 for this P.W. board

# [AV-32D303/R, AV-32D203/R]

### PRINTED WIRING BOARD PARTS LIST

### MAIN P.W. BOARD ASS'Y (SGE-1028A-M2)

Symbol No.	Part No.	Part Name	Description
RES	STOR	-	
R002	NRSA63J-OROX	MG R MG R	0.0Ω 1/16W J 100Ω 1/16W J
R003	NRSA63J-101X		
R004	NRSA63J-101X	MG R	100 <sub>Ω</sub> 1/16W J
R005	NRSA63J-OROX	MG R	0.0Ω 1/16W J
R008	NRSA63J-820X	MG R	82Ω 1/16W J
R009	NRSA63J-682X	MG R	6.8kΩ 1/16W J
R101	NRSA63J-562X	MG R	5.6kΩ 1/16W J
R102	NRSA63J-182X	MG R	1.8kΩ 1/16W J
R103	QRE121J-101Y	C R	$100_\Omega$ $1/2$ W J
R104	NRSA63J-180X	MG R	18Ω 1/16W J
R105	NRSA63J-270X	MG R	27Ω 1/16W J
R111	NRSA63J-394X	MG R	390kΩ 1/16W J
R112	NRSA63J-334X	MG R	330kΩ 1/16W J
R113	NRSA63J-101X	MĞ R	100 <sub>Ω</sub> 1/16W J
R115	NRSA63J-101X	MG R	100Ω 1/16W J
R116	NRSA63J-680X	MG R	68Ω 1/16W J
R117	NRSA63J-273X	MG R	27kΩ 1/16W J
R118	NRSA63J-223X	MG R	22kΩ 1/16W J
R131	NRSA63J-102X	MG R	1kΩ 1/16W J
R132	NRSA63J-331X	MG R	330Ω 1/16W J
R133	NRSA63J-821X	MG R	820Ω 1/16W J
R134	NRSA63J-561X	MG R	560Ω 1/16W J
R135	NRSA63J-102X	MG R	1kΩ 1/16W J
R161	NRSA63J-332X	MG R	3.3kΩ 1/16W J
R162	NRSA63J-OROX	MG R	0.0Ω 1/16W J
R163	NRSA63J-223X	MG R	22kΩ 1/16W J
R164	NRSA63J-102X	MG R	1kΩ 1/16W J
R165	NRSA63J-223X	MG R	22kΩ 1/16W J
R166	NRSA63J-103X	MG R	10kΩ 1/16W J
R167	NRSA63J-102X	MG R	1kΩ 1/16W J
R168	NRSA63J-101X	MG R	$100\Omega$ $1/16W$ J
R169	NRSA63J-561X	MG R	$560^{-1}_{\Omega}$ 1/16W J
R171	NRSA63J-103X	MG R	10kΩ 1/16W J
R201	NRSA63J-223X	MG R	22kΩ 1/16W J
R212	NRSA63J-272X	MG R	2.7kΩ 1/16W J
R215	NRSA63J-562X	MG R	5.6kO 1/16W I
R216	NRSA63J-562X	MĞ R	5.6kΩ 1/16W J
R217	NRSA63J-102X	MG R	1kΩ 1/16W J
R222	NRSA63J-OROX	MG R	$0.0\Omega$ 1/16W J
R227	NRSA63J-104X	MG R	100kΩ 1/16W J
R231	NRSA63J-182X	MG R	1.8kΩ 1/16W J
R237	NRSA63J-392X	MG R	3.9kΩ 1/16W J
R238	NRSA63J-473X	MG R	47kΩ 1/16W J
R241	NRSA63J-332X	MG R	3.3kΩ 1/16W J
R243	NRSA63J-152X	MG R	1.5kΩ 1/16W J
R281	NRSA63J-182X	MG R	1.8kΩ 1/16W J
R282	NRSA63J-392X	MG R	3.9kΩ 1/16W J
R283	NRSA63J-681X	MG R	680Ω 1/16W J
R286	NRSA63J-472X	MG R	4.7kΩ 1/16W J
R287	NRSA63J-101X	MG R	$100^{-1}_{\Omega}$ 1/16W J
R288	NRSA63J-471X	MG R	470Ω 1/16W J
R289	NRSA63J-154X	MG R	150kΩ 1/16W J
R290	NRSA63J-561X	MG R	560Ω 1/16W J
R292	NRSA63J-124X	MG R	120kΩ 1/16W J
R293	NRSA63J-224X	MG R	220kΩ 1/16W J
R301	NRSA63J-222X	MG R	2.2kΩ 1/16W J
R302	NRSA63J-222X	MG R	2.2kΩ 1/16W J
R303	NRSA63J-222X	MG R	2.2kΩ 1/16W J
R304	NRSA63J-101X	MG R	100Ω 1/16W J
R305	NRSA63J-101X	MG R	100Ω 1/16W J
R306	NRSA63J-101X	MG R	100Ω 1/16W J
R354	NRSA63J-OROX	MG R	$0.0\Omega$ 1/16W J
R355	NRSA63J-OROX	MG R	0.0Ω 1/16W J
R356	NRSA63J-123X	MG R	12kΩ 1/16W J
R359	NRSA63J-103X	MG R	10kΩ 1/16W J
R360	NCB31HK-103X	C CAP.	0.01µF 50V K
R421	NRSA63J-822X	MG R	8.2kΩ 1/16W Ĵ
R423	NRSA63J-393X	MG R	39kΩ 1/16W J
R424	NRSA63J-393X	MG R	39kΩ 1/16W J
11444			

Δ	Symbol No.	Part No.	Part Name	Description
	RES	ISTOR		
	R427 R429	QRT029J-1R5 NRS <i>A</i> 63J-272X	MF R MG R	1.5Ω 2W J 2.7kΩ 1/16W J
	R430	NRSA63J-OROX	MG R	0.0Ω 1/16W J
	R431	NRSA63J-152X	MG R	1.5kΩ 1/16W J
	R432 R433	NRSA63J-101X NRSA63J-681X	MG R MG R	100Ω 1/16W J 680Ω 1/16W J
	R434	ORL029J-181	OM R	180Ω ZW J
	R435	QRE121J-102Y	ĊR	1kΩ 1/2W J
	R441 R447	NRSA63J-OROX	MG R MG R	0.Q <sub>Ω</sub> 1/16W J 100kΩ 1/16W J
	R447	NRSA63J-104X NRSA63J-473X	MG R	100kΩ 1/16W J 47kΩ 1/16W J
	R449	NRSA63J-103X	MG R	10kΩ 1/16W J
	R501	NRSA63J-OROX	MG R MG R	0.0Ω 1/16W J 270Ω 1/16W J
	R502 R503	NRS <i>A</i> 63J-271X QRE121J-103Y	C R	270Ω 1/16W J 10kΩ 1/2W J
	R504	QRL039J-102	OM R	1kΩ 3W J
	R505	QRL039J-102	OM R	1kΩ 3W J
	R511 R512	QRE121J-220Y QRE121J-681Y	C R C R	22Ω 1/2W J 680Ω 1/2W J
	R523	QRJ 146J - 333X	C R C R	33kΩ 1/4W J
	R526 R527	QRE121J-272Y QRE121J-154Y	C R C R	2.7kΩ 1/2W J 150kΩ 1/2W J
	R528	QRE121J-154Y	C R	150kΩ 1/2W J
	R529	NRSA63J-331X	MG_R	330Ω 1/16W J
	R531 R532	QRJ146J-391X NRSA63J-273X	C R MG R	39ΩΩ 1/4W J 27kΩ 1/16W J
	R533	NRSA63J-123X	MG R	12kΩ 1/16W J
A	R534	NRSA63J-123X	MG R	12kΩ 1/16W J
Δ	R535 R537	NRVAO2D-222X NRVAO2D-752X	MF R MF R	2.2kΩ 1/10W D 7.5kΩ 1/10W D
_	R538	NRS <i>A</i> 63J-333X	MG R	33kΩ 1/16W J
	R543 R544	QRE121J-122Y QRE121J-392Y	C R C R	1.2kΩ 1/2W J 3.9kΩ 1/2W J
	R545	QRE121J-822Y	C R	3.9kΩ 1/2W J 8.2kΩ 1/2W J
	R546	NRSA63J-331X	MG R	330Ω 1/16W J
	R547 R548	NRS <i>A</i> 63J-104X QRE121J-152Y	MG R C R	100kΩ 1/16W J 1.5kΩ 1/2W J
	R553	QRL039J-180	OM R	18Ω 3W J
Δ	R554	QRK126J-150X	C R MF R	15Ω 1/2W J
	R555 R601	QRXO29J-3R3 NRSA63J-750X	MG R	3.3Ω <b>2</b> W J 75Ω 1/16W J
	R602	NRSA63J-750X	MG R	75Ω 1/16W J
	R603 R610	NRSA63J-750X NRSA63J-0R0X	MG R MG R	75Ω 1/16W J 0.0Ω 1/16W J
	R611	NRSA63J-OROX	MG R	0.0Ω 1/16W J
	R612	NRSA63J-OROX	MG R	0.0Ω 1/16W J
	R621 R622	NRSA63J-682X NRSA63J-681X	MG R MG R	6.8kΩ 1/16W J 680Ω 1/16W J
	R623	NRSA63J-682X	MG R	6.8kΩ 1/16W J
	R624	NRSA63J-681X	MG R	680Ω 1/16W J
	R626 R627	NRSA63J-223X NRSA63J-223X	MG R MG R	22kΩ 1/16W J 22kΩ 1/16W J
	R631	NRSA63J-333X	MG R	33kΩ 1/16W J
	R632	NRSA63J-223X	MG R	22kΩ 1/16W J
	R638 R639	NRSA63J-OROX NRSA63J-OROX	MG R MG R	0.0Ω 1/16W J 0.0Ω 1/16W J
	R651	NRSA63J-OROX	MG R	0.00 1/16W J
	R652	NRSA63J-OROX	MG R	0.0Ω 1/16W J
	R653 R700	NRSA63J-OROX NRSA63J-102X	MG R MG R	0.0Ω 1/16W J 1kΩ 1/16W J
	R701	NRSA63J-103X	MG R	10kΩ 1/16W J
	R702	NRSA63J-102X NRSA63J-472X	MG R	1kΩ 1/16W J
	R704 R705	NRSA63J-472X NRSA63J-472X	MG R MG R	4.7kΩ 1/16W J 4.7kΩ 1/16W J
	R706	NRSA63J-472X	MG R	4.7kΩ 1/16W J
	R707 R708	NRSA63J-103X NRSA63J-101X	MG R MG R	10kΩ 1/16W J 100Ω 1/16W J
	R709	NRSA63J-101X	MG R	100Ω 1/16W J
	R715 R718	NRSA63J-103X NRSA63J-223X	MG R MG R	10kΩ 1/16W J 22kΩ 1/16W J
	1.7.10	HIV2/027-772V	IIU IX	77/07 1/ TOM J

# [AV-32D303/R, AV-32D203/R]

Δ Symbol N	o. Part No.	Part Name	Description
	SISTOR	Tare Name	beset iperon
R721 R728 R729 R731 R732 R733 R734 R739 R740 R764 R765 R766 R767 R769 R772 R811 R812 R812 R816 R821 R821 R821 R812 R816 R821 R812 R816 R821 R817 A R909 R911 R912 R913 R914 R918 R919 R924 R930 R918 R919 R924 R930 R940 R941 R950 R951 R952 R953 R977 R978 R978 R977 R978 R979 R978 R979 R979	NRSA63J-102X NRSA63J-101X NRSA63J-101X NRSA63J-101X NRSA63J-101X NRSA63J-101X NRSA63J-101X NRSA63J-101X NRSA63J-472X NRSA63J-103X NRSA63J-21X NRSA63J-221X NRSA63J-221X NRSA63J-221X NRSA63J-221X NRSA63J-221X NRSA63J-221X NRSA63J-102X NRSA63J-102X NRSA63J-102X NRSA63J-102X NRSA63J-102X NRSA63J-102X NRSA63J-102X NRSA63J-102X ORCOSSASSASSASSASSASSASSASSASSASSASSASSASSA	MGG R R R R R R R R R R R R R R R R R R	1kQ 1/16W J 1kQ 1/16W J 22kQ 1/16W J 100Ω 1/16W J 100Ω 1/16W J 100Ω 1/16W J 4.7kQ 1/16W J 4.7kQ 1/16W J 4.7kQ 1/16W J 20Ω 1/16W J 220Ω 1/16W J 10kQ 1/16W J 10Q 1/2W J 10Q 1/16W J 11Q 1/2W J
CAI	PACITOR	<b>.</b>	
C001 C003 C004 C006 C101 C102 C104 C105 C106 C107 C113 C114 C116 C117 C118 C119 C120 C124 C131 C161 C163	QETNLHM-475Z QETNLHM-106Z QETNLCH-108Z QETNLEH-476Z NCB3LHK-103X NCB3LHK-103X NCB3LHK-103X QETNLEH-476Z NCB3LHK-103X QETNLEH-476Z NCB3LHK-103X NCB3LHK-103X QETNLEH-476Z NCB3LHK-103X QETNLEH-476Z NCB3LHK-103X QETNLEH-476Z NCB3LHK-103X NDC3LHJ-68LX QETNLHM-474Z NCB3LHK-103X	E CAP. E CAP. E CAP. C CAP.	4.7µF 50V M 100µF 50V M 1000µF 16V M 47µF 25V M 0.01µF 50V K 0.01µF 50V J 47µF 25V M 0.01µF 50V J 47µF 50V J 0.01µF 50V K 6800µF 50V J 0.01µF 50V K 6800µF 50V J 0.01µF 50V K 0.01µF 50V K

CAPACITOR  C164 NDC31HJ-470X C CAP. 47pF 50V J C165 NCB31HK-103X C CAP. 0.01µF 50V K C166 NCB31HK-103X C CAP. 0.01µF 50V K C206 QETMLHH-105Z E CAP. 1µF 50V M C203 NCB31HK-153X C CAP. 10µF 50V M C203 NCB31HK-153X C CAP. 1500pF 50V K C211 QENCION-106Z E CAP. 10µF 50V J C212 NDC31HJ-100X C CAP. 10pF 50V J C212 QEVTHJ-104Z HF CAP. 10µF 50V M C212 QEVTHJ-104Z HF CAP. 0.1µF 50V M C213 NCB31HK-103X C CAP. 0.01µF 50V K C213 NCB31HK-103X C CAP. 0.01µF 50V K C233 NCB31HK-103X C CAP. 0.01µF 50V K C233 NCB31HK-103X C CAP. 0.01µF 50V K C237 NCB31HK-103X C CAP. 0.01µF 50V K C241 NCB31HK-103X C CAP. 0.01µF 50V K C242 QETNLMH-225Z E CAP. 2.2µF 50V M C243 QETNLCM-107Z E CAP. 1.00µF 16V M C244 NCB31HK-103X C CAP. 0.01µF 50V K C381 QEVTHJ-344Z HF CAP. 0.01µF 50V K C381 QEVTHJ-344Z HF CAP. 0.01µF 50V K C381 NCB31HK-103X C CAP. 0.01µF 50V K C383 NCB31HK-103X C CAP. 0.01µF 50V K C384 NCB31HK-103X C CAP. 0.01µF 50V K C385 NCB31HK-103X C CAP. 0.01µF 50V K C386 QETNLCM-107Z E CAP. 1.00µF 16V M C386 QETNLCM-107Z E CAP. 1.00µF 16V M C388 NCB31HK-103X C CAP. 0.01µF 50V K C386 QETNLCM-107Z E CAP. 1.00µF 16V M C388 NCB31HK-103X C CAP. 0.01µF 50V K C389 QETNLCM-107Z E CAP. 1.00µF 16V M C391 QETNLCM-107Z E CAP. 1.00µF 16V M C392 QETNLCM-107Z E CAP. 1.00µF 16V M C391 QETNLCM-107Z E CAP. 1.00µF 16V	<u>∧</u> Symbol No	. Part No.	Part Name	Description
C165 NCB31KH-103X C C P. 0.01µF 50V K C160 NCB31KH-103X C C P. 0.01µF 50V K C202 QETM1HH-105Z E C P. 1µF 50V M C203 NCB31KH-15XX C C P. 1500pF 50V K C211 QENCCH-106Z E C P. 1500pF 50V K C211 QENCCH-106Z E C P. 10µF 50V M C212 NC31HJ-100X C C P. 10µF 50V M C212 NC31HJ-100X C C P. 10µF 50V M C212 QETM1HH-106Z E C P. 10µF 50V M C212 QETM1HH-106Z E C P. 10µF 50V M C222 QEFM1HH-106Z E C P. 10µF 50V M C223 NCB31HK-103X C C P. 0.1µF 50V K C233 NCB31HK-103X C C P. 68PF 50V J C223 NCB31HK-103X C C P. 68PF 50V J C223 NCB31HK-103X C C P. 0.01µF 50V K C241 NCB31HK-103X C C P. 0.01µF 50V K C241 NCB31HK-103X C C P. 0.01µF 50V K C242 QETM1HH-225Z E C P. 2.2µF 50V M C244 QETM1CH-107Z E C P. 100µF 16V M C244 NCB31HK-103X C C P. 0.01µF 50V K C243 QETM1CH-107Z E C P. 100µF 16V M C244 NCB31HK-103X C C P. 0.01µF 50V K C243 QETM1CH-107Z E C P. 100µF 16V M C283 NCB31HK-103X C C P. 0.01µF 50V K C282 QETM1CH-107Z E C P. 100µF 16V M C283 NCB31HK-103X C C P. 0.01µF 50V K C284 QETM1CH-107Z E C P. 100µF 16V M C288 NCB31HK-103X C C P. 0.01µF 50V K C285 NCB31HK-103X C C P. 0.01µF 50V K C285 NCB31HK-103X C C P. 0.01µF 50V K C286 QETM1CH-107Z E C P. 100µF 16V M C288 NCB31HK-103X C C P. 0.01µF 50V K C286 QETM1CH-107Z E C P. 100µF 16V M C392 NCB31HK-103X C C P. 0.01µF 50V K C286 QETM1CH-107Z E C P. 100µF 16V M C392 NCB31HK-103X C C P. 10µF 50V K NCB31HF 50V K NCB31HF 50V K NCB31HF 50V K NCB31HF 50V K NCB31H	CAP	ACITOR		
C525 QETNLIWN-107Z E CAP. 100 F 35V M  C526 QFV2IHJ-824Z MF CAP. 0.82 F 50V J  C527 QFLCAJ-103Z M CAP. 0.0 In 100 F 100 V  C531 QCB3ZHK-102Z C CAP. 100 F 500 V K  C533 QETNLIHN-106Z E CAP. 10 F 50 V M  C601 QETNLEM-476Z E CAP. 47 F 25 V M  C602 QETNLEM-476Z E CAP. 47 F 25 V M  C603 QETNLEM-476Z E CAP. 47 F 25 V M  C609 QFVFIHJ-104Z MF CAP. 0.1 F 50 V J	C164 C165 C1665 C1665 C1665 C202 C203 C211 C212 C221 C222 C223 C233 C237 C241 C242 C243 C244 C281 C282 C283 C284 C285 C286 C287 C288 C352 C354 C391 C392 C424 C425 C427 C428 C431 C432 C428 C431 C432 C433 C436 C501 C502 C503 C504 C500 A C510 A C510 C501 C502 C503 C504 C510 C501 C502 C503 C504 C510 C515 C516 C515 C516 C521 C523 C525 C526 C527 C531 C533 C601 C602 C603	MDC31HJ-470X MCB31HK-103X MCB31HK-103X MCB31HK-103X MCB31HK-105Z MCB31HK-105Z MCB31HK-105Z MCB31HK-103X QETM1HM-106Z QFVF1HJ-104Z MCB31HK-103X MCB31HK-103X MCB31HK-103X MCB31HK-103X MCB31HK-103X QETM1HM-25Z QETM1CM-107Z MCB31HK-103X QFTM1HM-25Z QETM1CM-107Z MCB31HK-103X QFTM1HM-25Z MCB31HK-103X QETM1HM-25Z MCB31HK-103X QETM1CM-107Z MCB31HK-103X QETM1CM-107Z MCB31HK-103X QETM1CM-107Z MCB31HK-103X QETM1CM-107Z MCB31HK-103X QETM1CM-107Z QETM1CM-107Z MCB31HK-103X QETM1CM-107Z QETM1CM-107Z MCB31HK-103X QETM1CM-107Z MCB31HK-103X QETM1CM-107Z MCB31HK-103X QETM1CM-107Z MCB31HK-103X QETM1CM-107Z MCB31HK-103X QETM1CM-107Z QETM1CM-107Z QETM1CM-107Z QETM1CM-107Z QETM1CM-107Z QETM1CM-47GZ QETM1CM-47GZ QETM1CM-47GZ MCB32HK-311Z QEHRCM-105Z QETM1CM-105Z QETM1CM-47GZ	C C C E C E MF C C C C E E C M E C E C E C E C E C E E E E	47pF 50V J 0.01µF 50V K 0.01µF 50V M 1500F 50V M 1500F 50V M 10µF 50V M 10µF 50V M 0.1µF 50V J 0.01µF 50V J 0.01µF 50V K 68pF 50V J 0.01µF 50V K 0.01µF 50V M 100µF 16V M 0.01µF 50V K 100µF 50V K 100µF 16V M 0.01µF 50V K 100µF 16V M 0.01µF 50V K 100µF 50V K 100µF 16V M 0.01µF 50V K 100µF 50V K 100µF 50V K 100µF 50V K 100µF 16V M 0.01µF 50V K 100µF 16V M 0.01µF 50V K 100µF 50V K 100µF 50V K 100µF 50V K 100µF 15V M 0.018µF 50V K 10µF 50V K

### [ AV-32D303/R, AV-32D203/R]

Δ	Symbol No.	Part No.	Part Name	Description
<u> </u>		PART NO.  QETNIHM-106Z QETNIHM-106Z QETNIHM-106Z QETNIHM-106Z QETNIHM-106Z QETNIHM-106Z QETNIHM-105Z NCB31HK-103X QETNIHM-105Z NDC31HJ-220X NDC31HJ-220X NDC31HJ-220X QETNICM-107Z NCB31HK-103X QETNICM-107Z NCB31HK-103X QETNICM-105Z NCB31HK-103X QETNICM-27Z QETNICM-227Z QETNICM-47Z QETNICM-47Z QETNICM-47Z QETNIHM-107Z NDC31HJ-331X NCB31HK-18ZX NCB31HK-18ZX NCB31HK-18ZX NCB31HK-104X QFP32GJ-103 QEZ0203-107 QETNICM-108Z NDC31HJ-151X QETNIEM-108Z QCZ0340-102 QCES040-102 QCETNICM-477Z QETNICM-108Z QCZ032HK-102Z QCZ032HK-102Z QCZG340-102 QCTMCM-477Z QETNICM-108Z QCZ032HK-102Z QCZG340-102 QETNICM-107Z QETNICM-107Z QETNICM-477Z QETNICM-107Z QETNICM-477Z QETNICM-107Z QETNICM-477Z QETNICM-107Z QETNICM-477Z QETNICM-107Z QETNICM-477Z QETNICM-477Z QETNICM-107Z QETNICM-477Z QETNICM-107Z	Part Name  E CAP.  E CAP.  E CAP.  C C	Description  10 F 50V M 100 F 50V M 22 PF 50V J 22 PF 50V J 100 F 16V M 0.01 F 50V K 10 F 50V M 10 F 50V K 10 F 50V F F F F F F F F F F F F F F F F F F F
<u>^</u>	C973 C997 C998 C999	QETMIHM-106Z QCZ9952-102 QCZ9974-103 QCZ9974-103	E CAP. C CAP. C CAP. C CAP.	10µF 50V M 1000pFAC125V M 0.01µFAC250V M 0.01µFAC250V M
<u>^</u>	T111 T501 T502 T921 T951	QQR0907-001 CE42034-002 QQH0121-001 QQS0138-001 QQT0372-001	IFT HOR DRIVE TRANS FB TRANSF SW TRANSF POWER TRANSF	or QCT0355-001
Δ	COIL  L001 L101 L113 L131 L161 L232 L241 L391 L511 L511 L512 L521	QQL 244K-560Z QQL 2014-R22 QQL 2014-R22 QQL 244K-4R7Z QQL 244K-250Z QQL 244K-220Z QQL 244K-220Z QQL 244K-220Z CE41029-00A QQL 2036-821 QQL 2026-540	COIL INDUCTOR COIL INDUCTOR COIL INDUCTOR INDUCTOR INDUCTOR INDUCTOR LINEARITY COIL INDUCTOR INDUCTOR	5 գս H K 4. 7μ H K 1 5μ H K 5 գս H K or QQLZ027-821

Δ	Symbol No.	Part No.	Part Name	Description
_	COIL			2030.190.00.
	L701 L702 L703 L704 L705 L931 L933 L940	QQL244K-220Z QQL244K-220Z QQL244K-220Z QQL244K-220Z QQL2644K-220Z QQL26AK-470Z QQL26AK-470Z QQR0582-001Z	INDUCTOR INDUCTOR INDUCTOR INDUCTOR INDUCTOR COIL FERRITE BEADS	47 <sub>1</sub> Н К 47 <sub>1</sub> Н К
	DIOD	ÞΕ		
Δ Δ Δ Δ Δ	D305 D306 D307 D308 D309 D310 D352 D353 D354 D422 D432 D501 D502 D521 D523 D526 D527 D529 D531 D533 D537 D601 D602 D603 D700 D701 D703 D704 D705 D706 D707 D709 D708 D709 D709 D709 D709 D710 D910 D911 D911 D912 D913 D914 D915 D917 D918 D919 D919 D919 D919 D919 D910 D911 D911	155133-T2 155133-T2 155133-T2 155133-T2 155133-T2 155133-T2 177.9.1C-T2 155133-T2 177.9.1C-T2 177.75-T2 177.75-T2 177.75-T2 17513-T2 177.75-T2 17513-T2 177.75-T2 17513-T2 177.75-T2 177.75-T3 177.75-T2 177.7	SI DIODE	
_	TRAN	SISTOR	₹	
	0001 0101 0131 0161 0211	UN2212-X 2SC5083/L-P/-T 2SB709A/QR/-X 2SD601A/QR/-X 2SD601A/QR/-X	DIGI TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	

### [ AV-32D303/R, AV-32D203/R]

A	Symbol No.	Part No.	Part Name	Description
_	TRAN	IS I STO	₹	
Δ	Q232 Q233 Q352 Q431 Q501 Q501 Q511 Q532 Q542 Q542 Q623 Q701 Q971	2SD@1A/QR/-X 2SD@1A/QR/-X 2SD@1A/QR/-X UN2212-X 2SC&121/71/ 2SD.%45-YD 2SC.7785/JH/-T 2SB709A/QR/-X 2SB709A/QR/-X 2SB709A/QR/-X 2SD01A/QR/-X UN2212-X 2SD1383K/AB/-X 2SD1383K/AB/-X 2SA1208/ST/71-T	TRANSISTOR TRANSISTOR TRANSISTOR DIGI TRANSISTOR TRANSISTOR POWER TRANSISTO SI TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR DIGI TRANSISTOR	Н.ОИТ
_	IC			
<b>A</b>	IC101 IC201 IC421	M52342SP TM8812CSBNG3U68	IC IC	
Δ	IC421 IC621 IC702	LA7841 LA4485 AT24C08-32D503	IC IC	(SERVICE)
	IC703 IC704 IC852	S-80840ANY-T AN78L05-T AN7809F	IC IC IC	or BA17809T
<u>A</u>	IC853 IC911 IC921	AN7805F STR-G6624/F8 SE135N	IC IC IC	or BA17805T
_	ОТНЕ	-RS		
	CF001 CF131 CF161 CN004 CN005 CN007 CN007 CN007 CN007 CP932 CP933 F901 F905 F6901 J810 J810 K912 K916 K917 K918 K931 K931 K938 K933 K935 LC602 LC602 LC603 LC603 LF901 FC921 SF101 TU001 VA901 VA901 X701	QAX0349-001 QAX0642-0017 QGB1505J1-35 QGA2501C5-057 QGA2501C5-057 QGA2501C5-077 QMPB390-200-JS ICP-M70-T ICP-M70-T ICP-M70-T QMF2049-5R0J-E CEMG002-001Z QRX9917-4R7 QRX9911-470 QNN0349-002 QNS001-001 QQR0582-001Z	C TRAP C TRAP C TRAP C FILTER B TO B CONNE W TO B CONNE W TO B CONNE C POTECTOR C PROTECTOR F USE FUSE CLIP FUSE CLIP FUSE CLIP F R PIN JACK JACK JACK JACK FERRITE BEADS FERRITE FILL BEADS FERRITE FILL BEADS FERRITE FILL BEADS FERRITE FILL	or QMPD200-200-JC  5.0A or QMF51U1-5R0-J8 5.0A  4.7 Ω 1/4W J 47Ω 1/2W J  or QQR0527-003  Q\$K0130-001, Q\$K0085-001

#### CRT SOCKET P.W. BOARD ASS'Y (SGE-3007A-M2)

Refer to PARTS LIST in page 50 for this P.W. board

#### AV SELECTOR P.W. BOARD ASS'Y (SGE-5001A-M2)

Refer to PARTS LIST in page 45 for this P.W. board

### FRONT AV IN P.W. BOARD ASS'Y (SGE-6001A-M2)

Refer to PARTS LIST in page 46 for this P.W. board

# FRONT CONTROL P.W. BOARD ASS'Y (SGE-7001A-M2)

Refer to PARTS LIST in page 46 for this P.W. board

### [ AV-32D303/Y, AV-32D203/Y]

### PRINTED WIRING BOARD PARTS LIST

### MAIN P.W. BOARD ASS'Y (SGE-1006A-M2)

Symbol No.	Part No.	Part Name	Description	
RES	ISTOR			
R002	NRSA63J-OROX	MG R MG R	0.0Ω 1/16W J 100Ω 1/16W J	
R003	NRSA63J-101X			
R004	NRSA63J-101X	MG R	100Ω 1/16W J	
R005	NRSA63J-OROX	MG R	0.0Ω 1/16W J	
R008	NRSA63J-820X	MG R	82Ω 1/16W J	
R009	NRSA63J-682X	MG R	6.8kΩ 1/16W J	
R101	NRSA63J-562X	MG R	5.6kΩ 1/16W J	
R102	NRSA63J-182X	MG_R	1.8kΩ 1/16W J	
R103	QRE121J-101Y	C R	100Ω 1/2W J	
R104	NRSA63J-180X	MG R	18Ω 1/16W J	
R105	NRSA63J-270X	MG R	27Ω 1/16W J	
R111	NRSA63J-394X	MG R	390kΩ 1/16W J	
R112	NRSA63J-334X	MG R MG R	330kΩ 1/16W J	
R113	NRSA63J-101X	MG R	$100_\Omega$ 1/16W J	
R115	NRSA63J-101X	MG R	100Ω 1/16W J	
R116	NRSA63J-680X	MG R	68Ω 1/16W J	
R117	NRSA63J-273X	MG R	27kΩ 1/16W J	
R118	NRSA63J-223X	MG R	22kΩ 1/16W J	- 1
R131	NRSA63J-102X	MG R	1kΩ 1/16W J	1
R132	NRSA63J-331X	MG R	330Ω 1/16W J	1
R133	NRSA63J-821X	MG R	820Ω 1/16W J	1
R134	NRSA63J-561X	MG R	560Ω 1/16W J	1
R135	NRSA63J-102X	MG R	1kΩ 1/16W J	1
R161	NRSA63J-332X	MG R	3.3kΩ 1/16W J	1
R162	NRSA63J-OROX	MG R	0.0Ω 1/16W J	
R163	NRSA63J-223X	MG R	22kΩ 1/16W J	
R164	NRSA63J-102X	MG R	1kΩ 1/16W J	
R165	NRSA63J-223X	MG R	22kΩ 1/16W J	
R166	NRSA63J-103X	MG R	10kΩ 1/16W J	
R167	NRSA63J-102X	MG R	1kΩ 1/16W J	
R168	NRSA63J-101X	MG R	100Ω 1/16W J	
R169	NRSA63J-561X	MG R	560Ω 1/16W J	
R171	NRSA63J-103X	MG R	10kΩ 1/16W J	
R201	NRSA63J-223X	MG R	22kΩ 1/16W J	
R212	NRSA63J-272X	MG R	2.7kΩ 1/16W J	
R215	NRSA63J-562X			
R216	NRSA63J-562X	MG R MG R	5.6kΩ 1/16W J 5.6kΩ 1/16W J	
R217	NRSA63J-102X			
		MG R		
R222	NRSA63J-OROX	MG R	0.0Ω 1/16W J	
R227	NRSA63J-104X	MG R	100kΩ 1/16W J	
R231	NRSA63J-182X	MG R	1.8kΩ 1/16W J	
R237	NRSA63J-392X	MG R	3.9kΩ 1/16W J	
R238	NRSA63J-473X	MG R	47kΩ 1/16W J	
R241	NRSA63J-332X	MG R	3.3kΩ 1/16W J	
R243	NRSA63J-152X	MG R	1.5kΩ 1/16W J	
R281	NRSA63J-182X	MG R	1.8kΩ 1/16W J	- 1
R282	NRSA63J-392X	MG R	3.9kΩ 1/16W J	1
R283	NRSA63J-681X	MG R	680Ω 1/16W J	
R286	NRSA63J-472X	MG R	4.7kΩ 1/16W J	1
R287	NRSA63J-101X	MG R	100Ω 1/16W J	1
R288	NRSA63J-471X	MG R	470Ω 1/16W J	
R289	NRSA63J-154X	MG R	150kΩ 1/16W J	1
R290	NRSA63J-561X	MG R	560Ω 1/16W J	1
R292	NRSA63J-124X	MG R	120kΩ 1/16W J	1
R293	NRSA63J-224X	MG R	220kΩ 1/16W J	1
R301	NRSA63J-222X	MG R	2.2kΩ 1/16W J	1
R302	NRSA63J-222X	MG R	2.2kΩ 1/16W J	
R303	NRSA63J-222X	MG R	2.2kΩ 1/16W J	1
R304	NRSA63J-101X	MG R	100Ω 1/16W J	- 1
R305	NRSA63J-101X	MG R	100Ω 1/16W J	1
R306	NRSA63J-101X	MG R	100Ω 1/16W J	1
R354	NRSA63J-OROX	MG R	0.0Ω 1/16W J	- 1
R355	NRSA63J-OROX	MG R	0.0Ω 1/16W J	1
R356	NRSA63J-123X	MG R	12kΩ 1/16W J	
R359	NRSA63J-103X	MG R	10kΩ 1/16W J	1
R360	NCB31HK-103X	C CAP.	0.01µF 50V K	1
R421	NRSA63J-822X	MG R	8.2kΩ 1/16W J	- 1
11744	NRSA63J-393X	MG R	39kΩ 1/16W J	1
R473				
R423 R424	NRSA63J-393X	MG R	39kΩ 1/16W J	

Δ	Symbol No.	Part No.	Part Name	Description
	RES	ISTOR		
	R427 R429	QRT029J-1R5 NRSA63J-272X	MF R MG R	$1.5\Omega$ $^{2}$ W J $2.7k_{\Omega}$ $1/16$ W J
	R430	NRSA63J-OROX	MG R	0.0Ω 1/16W J
	R431	NRSA63J-152X	MG R	1.5kΩ 1/16W J
	R432 R433	NRSA63J-101X NRSA63J-681X	MG R MG R	100Ω 1/16W J 680Ω 1/16W J
	R433	QRL029J-181	OM R	180Ω ZW J
	R435	QRE121J-102Y	C R	1kΩ 1/2W J
	R441 R447	NRSA63J-OROX NRSA63J-104X	MG R MG R	0.Q <sub>Ω</sub> 1/16W J 100kΩ 1/16W J
	R448	NRSA63J-473X	MG R	47kΩ 1/16W J
	R449	NRSA63J-103X	MG R	10kΩ 1/16W J
	R501 R502	NRSA63J-OROX NRSA63J-271X	MG R MG R	0.0Ω 1/16W J 270Ω 1/16W J
	R503	QRE121J-103Y	C R	10kΩ 1/2W J
	R504	QRL039J-102	OM R	1kΩ 3W J
	R505 R511	QRL039J-102 QRE121J-220Y	OM R C R	1kΩ 3W J 22Ω 1/2W J
	R512	QRE121J-681Y	C R	680Ω 1/ <b>2</b> W J
	R523 R526	QRJ146J-333X QRE121J-272Y	C R C R	33kΩ 1/4W J 2.7kΩ 1/2W J
	R527	QRE121J-154Y	C R	150kΩ 1/2W J
	R528	QRE121J-154Y	C R	150kΩ 1/2W J
	R529 R531	NRSA63J-331X QRJ146J-391X	MG R C R	330Ω 1/16W J 390Ω 1/4W J
	R532	NRS <i>A</i> 63J-273X	MG R	27kΩ 1/16W J
	R533 R534	NRSA63J-123X NRSA63J-123X	MG R MG R	12kΩ 1/16W J 12kΩ 1/16W J
Δ	R535	NRVA02D-222X	MF R	2.2kΩ 1/10W D
Δ	R537	NRVA02D-752X	MF R MG R	7.5kΩ 1/10W D
	R538 R543	NRSA63J-333X QRE121J-122Y	C R	33kΩ 1/16W J 1.2kΩ 1/2W J
	R544	QRE121J-392Y	C R	3.9kΩ 1/2W J
	R545 R546	QRE121J-822Y NRSA63J-331X	C R MG R	8.2kΩ 1/2W J 330Ω 1/16W J
	R547	NRSA63J-104X	MG R	100kΩ 1/16W J
	R548 R553	QRE121J-152Y QRL039J-180	C R OM R	1.5kΩ 1/2W J 18Ω 3W J
Δ	R554	QRK126J-150X	C R	15Ω 1/2W J
	R555 R601	QRXO29J-3R3 NRSA63J-750X	MF R MG R	3.3Ω 2W J 75Ω 1/16W J
	R602	NRSA63J-750X	MG R	75Ω 1/16W J
	R603	NRSA63J-750X	MG R	75Ω 1/16W J
	R610 R611	NRSA63J-OROX NRSA63J-OROX	MG R MG R	0.Q <sub>Ω</sub> 1/16W J 0.Q <sub>Ω</sub> 1/16W J
	R612	NRSA63J-OROX	MG R	0.0Ω 1/16W J
	R621 R622	NRSA63J-682X NRSA63J-681X	MG R MG R	6.8kΩ 1/16W J 680Ω 1/16W J
	R623	NRSA63J-682X	MG R	6.8kΩ 1/16W J
	R624	NRSA63J-681X	MG R	680Ω 1/16W J
	R626 R627	NRSA63J-223X NRSA63J-223X	MG R MG R	22kΩ 1/16W J 22kΩ 1/16W J
	R631	NRSA63J-333X	MG R	33kΩ 1/16W J
	R632 R638	NRSA63J-223X NRSA63J-0R0X	MG R MG R	22kΩ 1/16W J 0.0Ω 1/16W J
	R639	NRSA63J-OROX	MG R	0.Q <sub>Ω</sub> 1/16W J
	R651	NRSA63J-OROX	MG R	0.0Ω 1/16W J
	R652 R653	NRSA63J-OROX NRSA63J-OROX	MG R MG R	0.0Ω 1/16W J 0.0Ω 1/16W J
	R700	NRSA63J-102X	MG R	1kΩ 1/16W J
	R701 R702	NRSA63J-103X NRSA63J-102X	MG R MG R	10kΩ 1/16W J 1kΩ 1/16W J
	R704	NRSA63J-472X	MG R	4.7kΩ 1/16W J
	R705	NRSA63J-472X	MG R	4.7kΩ 1/16W J
	R706 R707	NRSA63J-472X NRSA63J-103X	MG R MG R	4.7kΩ 1/16W J 10kΩ 1/16W J
	R708	NRS <i>A</i> 63J-101X	MĠ R	100Ω 1/16W J
	R709 R715	NRSA63J-101X NRSA63J-103X	MG R MG R	100Ω 1/16W J 10kΩ 1/16W J
	R718	NRSA63J-223X	MG R	22kΩ 1/16W J

# [AV-32D303/Y, AV-32D203/Y]

∆ Symbol No	. Part No.	Part Name	Description
	ISTOR	Ture Halle	Description
R721 R728 R729 R731 R732 R733 R734 R739 R740 R764 R765 R766 R767 R769 R7772 R811 R812 R816 R821 R812 R816 R821 R812 R816 R821 R812 R816 R821 R811 R812 R816 R821 R817 R818 R919 R914 R913 R914 R913 R914 R913 R914 R913 R914 R915 R917 R918 R919 R924 R930 R939 R940 R941 R950 R951 R952 R953 R977 R978 R977 R978 R977 R978 R977 R978 R977 R978 R999	NRSA63J-102X NRSA63J-102X NRSA63J-101X NRSA63J-101X NRSA63J-101X NRSA63J-101X NRSA63J-472X NRSA63J-472X NRSA63J-472X NRSA63J-201X NRSA63J-221X NRSA63J-221X NRSA63J-221X NRSA63J-221X NRSA63J-221X NRSA63J-221X NRSA63J-221X NRSA63J-221X NRSA63J-102X NRSA63J-102X NRSA63J-102X NRSA63J-102X NRSA63J-102X NRSA63J-102X ORGO9J-100 ORLO2J-470 ORLO2J-470 ORLO2J-470 ORLO2J-820 ORFO74K-R47 ORGO16J-470 ORE121J-223Y ORTO2J-R22 ORK126J-681X ORK129J-684 ORK129J-684 ORK129J-684 ORK129J-684 ORK129J-684 ORK129J-684 ORK129J-684 ORK129J-1813 ORK129J-1814 ORK129J-1814 ORK129J-1814 ORK129J-1814 ORK129J-1817 ORE121J-223Y	MG R R R R R R R R R R R R R R R R R R R	1kΩ 1/16W J 1kΩ 1/16W J 22kΩ 1/16W J 100Ω 1/16W J 100Ω 1/16W J 100Ω 1/16W J 4.7kΩ 1/16W J 4.7kΩ 1/16W J 4.7kΩ 1/16W J 220Ω 1/16W J 10kΩ 1/16W J 120kΩ 1/2W J 22kΩ 1/2W J
CAP	ACITOR	<b>t</b>	_
C001 C003 C004 C006 C101 C102 C104 C105 C106 C107 C113 C114 C116 C117 C118 C119 C120 C124 C131 C161	QETNLHM-475Z QETNLHM-106Z QETNLCM-108Z QETNLCM-108X NCB31HK-103X NDC31HJ-681X QETNLHM-474Z NCB31HK-103X NCB31HK-103X NCB31HK-103X NCB31HK-103X NCB31HK-103X NCB31HK-103X NCB31HK-103X NCB31HK-103X	E CAP. E CAP. C CAP.	4.7µF 50V M 10µF 50V M 1000µF 16V M 47µF 25V M 0.01µF 50V K 680PF 50V J 47µF 50V M 0.01µF 50V M 0.01µF 50V M 0.01µF 50V M

CAPACITOR  C164 NDC31HJ-470X C CAP. 47pF 50V J C165 NCB31HK-103X C CAP. 0.01µF 50V K C166 NCB31HK-103X C CAP. 0.01µF 50V K C206 QETMLHH-105Z E CAP. 1µF 50V M C203 NCB31HK-153X C CAP. 10µF 50V M C203 NCB31HK-153X C CAP. 1500pF 50V K C211 QENCION-106Z E CAP. 10µF 50V J C212 NDC31HJ-100X C CAP. 10pF 50V J C212 QEVTHJ-104Z HF CAP. 10µF 50V M C212 QEVTHJ-104Z HF CAP. 0.1µF 50V M C213 NCB31HK-103X C CAP. 0.01µF 50V K C213 NCB31HK-103X C CAP. 0.01µF 50V K C233 NCB31HK-103X C CAP. 0.01µF 50V K C233 NCB31HK-103X C CAP. 0.01µF 50V K C237 NCB31HK-103X C CAP. 0.01µF 50V K C241 NCB31HK-103X C CAP. 0.01µF 50V K C242 QETNLMH-225Z E CAP. 2.2µF 50V M C243 QETNLCM-107Z E CAP. 1.00µF 16V M C244 NCB31HK-103X C CAP. 0.01µF 50V K C381 QEVTHJ-344Z HF CAP. 0.01µF 50V K C381 QEVTHJ-344Z HF CAP. 0.01µF 50V K C381 NCB31HK-103X C CAP. 0.01µF 50V K C383 NCB31HK-103X C CAP. 0.01µF 50V K C384 NCB31HK-103X C CAP. 0.01µF 50V K C385 NCB31HK-103X C CAP. 0.01µF 50V K C386 QETNLCM-107Z E CAP. 1.00µF 16V M C386 QETNLCM-107Z E CAP. 1.00µF 16V M C388 NCB31HK-103X C CAP. 0.01µF 50V K C386 QETNLCM-107Z E CAP. 1.00µF 16V M C388 NCB31HK-103X C CAP. 0.01µF 50V K C389 QETNLCM-107Z E CAP. 1.00µF 16V M C391 QETNLCM-107Z E CAP. 1.00µF 16V M C392 QETNLCM-107Z E CAP. 1.00µF 16V M C391 QETNLCM-107Z E CAP. 1.00µF 16V	<u>∧</u> Symbol No	. Part No.	Part Name	Description
C165 NCB31KH-103X C C P. 0.01µF 50V K C160 NCB31KH-103X C C P. 0.01µF 50V K C202 QETM1HH-105Z E C P. 1µF 50V M C203 NCB31KH-15XX C C P. 1500pF 50V K C211 QENCCH-106Z E C P. 1500pF 50V K C211 QENCCH-106Z E C P. 10µF 50V M C212 NC31HJ-100X C C P. 10µF 50V M C212 NC31HJ-100X C C P. 10µF 50V M C212 QETM1HH-106Z E C P. 10µF 50V M C212 QETM1HH-106Z E C P. 10µF 50V M C222 QEFM1HH-106Z E C P. 10µF 50V M C223 NCB31HK-103X C C P. 0.1µF 50V K C233 NCB31HK-103X C C P. 68PF 50V J C223 NCB31HK-103X C C P. 68PF 50V J C223 NCB31HK-103X C C P. 0.01µF 50V K C241 NCB31HK-103X C C P. 0.01µF 50V K C241 NCB31HK-103X C C P. 0.01µF 50V K C242 QETM1HH-225Z E C P. 2.2µF 50V M C244 QETM1CH-107Z E C P. 100µF 16V M C244 NCB31HK-103X C C P. 0.01µF 50V K C243 QETM1CH-107Z E C P. 100µF 16V M C244 NCB31HK-103X C C P. 0.01µF 50V K C243 QETM1CH-107Z E C P. 100µF 16V M C283 NCB31HK-103X C C P. 0.01µF 50V K C282 QETM1CH-107Z E C P. 100µF 16V M C283 NCB31HK-103X C C P. 0.01µF 50V K C284 QETM1CH-107Z E C P. 100µF 16V M C288 NCB31HK-103X C C P. 0.01µF 50V K C285 NCB31HK-103X C C P. 0.01µF 50V K C285 NCB31HK-103X C C P. 0.01µF 50V K C286 QETM1CH-107Z E C P. 100µF 16V M C288 NCB31HK-103X C C P. 0.01µF 50V K C286 QETM1CH-107Z E C P. 100µF 16V M C392 NCB31HK-103X C C P. 0.01µF 50V K C286 QETM1CH-107Z E C P. 100µF 16V M C392 NCB31HK-103X C C P. 10µF 50V K NCB31HF 50V K NCB31HF 50V K NCB31HF 50V K NCB31HF 50V K NCB31H	CAP	ACITOR		
C525 QETNLIWN-107Z E CAP. 100 F 35V M  C526 QFV2IHJ-824Z MF CAP. 0.82 F 50V J  C527 QFLCAJ-103Z M CAP. 0.0 In 100 F 100 V  C531 QCB3ZHK-102Z C CAP. 100 F 500 V K  C533 QETNLIHN-106Z E CAP. 10 F 50 V M  C601 QETNLEM-476Z E CAP. 47 F 25 V M  C602 QETNLEM-476Z E CAP. 47 F 25 V M  C603 QETNLEM-476Z E CAP. 47 F 25 V M  C609 QFVFIHJ-104Z MF CAP. 0.1 F 50 V J	C164 C165 C1665 C1665 C1665 C202 C203 C211 C212 C221 C222 C223 C233 C237 C241 C242 C243 C244 C281 C282 C283 C284 C285 C286 C287 C288 C352 C354 C391 C392 C424 C425 C427 C428 C431 C432 C428 C431 C432 C433 C436 C501 C502 C503 C504 C500 A C510 A C510 C501 C502 C503 C504 C510 C501 C502 C503 C504 C510 C515 C516 C515 C516 C521 C523 C525 C526 C527 C531 C533 C601 C602 C603	MDC31HJ-470X MCB31HK-103X MCB31HK-103X MCB31HK-103X MCB31HK-105Z MCB31HK-105Z MCB31HK-105Z MCB31HK-103X QETM1HM-106Z QFVF1HJ-104Z MCB31HK-103X MCB31HK-103X MCB31HK-103X MCB31HK-103X MCB31HK-103X QETM1HM-25Z QETM1CM-107Z MCB31HK-103X QFTM1HM-25Z QETM1CM-107Z MCB31HK-103X QFTM1HM-25Z MCB31HK-103X QETM1HM-25Z MCB31HK-103X QETM1CM-107Z MCB31HK-103X QETM1CM-107Z MCB31HK-103X QETM1CM-107Z MCB31HK-103X QETM1CM-107Z MCB31HK-103X QETM1CM-107Z QETM1CM-107Z MCB31HK-103X QETM1CM-107Z QETM1CM-107Z MCB31HK-103X QETM1CM-107Z MCB31HK-103X QETM1CM-107Z MCB31HK-103X QETM1CM-107Z MCB31HK-103X QETM1CM-107Z MCB31HK-103X QETM1CM-107Z QETM1CM-107Z QETM1CM-107Z QETM1CM-107Z QETM1CM-107Z QETM1CM-47GZ QETM1CM-47GZ QETM1CM-47GZ MCB32HK-311Z QEHRCM-105Z QETM1CM-105Z QETM1CM-47GZ	C C C E C E MF C C C C E E C M E C E C E C E C E C E E E E	47pF 50V J 0.01µF 50V K 0.01µF 50V M 1500F 50V M 1500F 50V M 10µF 50V M 10µF 50V M 0.1µF 50V J 0.01µF 50V J 0.01µF 50V K 68pF 50V J 0.01µF 50V K 0.01µF 50V M 100µF 16V M 0.01µF 50V K 100µF 50V K 100µF 16V M 0.01µF 50V K 100µF 16V M 0.01µF 50V K 100µF 50V K 100µF 16V M 0.01µF 50V K 100µF 50V K 100µF 50V K 100µF 50V K 100µF 16V M 0.01µF 50V K 100µF 16V M 0.01µF 50V K 100µF 50V K 100µF 50V K 100µF 50V K 100µF 15V M 0.018µF 50V K 10µF 50V K

# [AV-32D303/Y, AV-32D203/Y]

Δ	Symbol No.	Part No.	Part Name	Description
		PART NO.  QETNLHM-106Z QETNLHM-106Z QETNLHM-106Z QETNLHM-106Z QETNLHM-106Z QETNLHM-105Z NCB31HK-103X QETNLHM-105Z NDC31HJ-220X NDC31HJ-220X NDC31HJ-220X QETNLCM-107Z NCB31HK-103X QETNLCM-107Z NCB31HK-103X QETNLM-106Z NCB31HK-103X QETNLM-477Z QETNLCM-227Z QETNLCM-27Z QETNLCM-227Z QETNLCM-227Z QETNLCM-227Z QETNLCM-227Z QETNLCM-27Z QETNLCM-227Z QETNLCM-227Z QETNLCM-227Z QETNLCM-227Z QETNLCM-27Z QETNLCM-102 QCZ0354-102 QCZ0354-102 QCZ0354-102 QCZ0354-102 QCZ0354-102 QCZ0354-102 QCZ0354-102 QCZ0354-102 QCZ0354-102 QCZ03640-222 QFLC1HJ-471Z QETNLCM-108Z NDC31HJ-331X NCB31HK-182X NCB31HK-182X NCB31HK-182X NCB31HK-104X QFP32GJ-103 QEZ0203-107 QETNLCM-108Z QCZ0340-102 QETNLCM-108Z QCZ0340-102 QETNLCM-107Z QETNLCM-107Z QETNLCM-477Z QETNLCM-477Z QETNLCM-277Z QETNLCM-277Z QETNLCM-277Z QETNLCM-277Z QETNLCM-277Z QETNLCM-277Z QETNLCM-107Z QETNLCM-107Z QETNLCM-277Z QETNLCM-107Z QETNLCM-277Z QETNLCM-107Z QETNLEM-477Z QETNLCM-107Z QETNLCM-107Z	Part Name  E CAP. E CAP. E CAP. E CAP. C CAP. E CAP.	10
<u>A</u> <u>A</u>	(998 (999 <b>TRAN</b>		C CAP. C CAP.	0.01μFAC250V M 0.01μFAC250V M
<u>^</u> <u>^</u>	T111 T501 T502 T921 T951	QQR0907-001 CE42034-002 QQH0121-001 QQS0138-001 QQT0372-001	IFT HOR DRIVE TRANS FB TRANSF SW TRANSF POWER TRANSF	or QQT0355-001
	L001 L L101 L113 L131 L161 L232 L241 L391	00L244K-560Z 00L2014-R22 00L244K-4R7Z 00L244K-150Z 00L244K-220Z 00L244K-560Z 00L244K-220Z 00L244K-220Z	COIL INDICTOR COIL COIL INDICTOR COIL INDICTOR	56µH K 4.7µH K 15µH K 56µH K
Δ	L511 L512 L521	QQR1027-003 QQL2036-821 QQL2026-560	INDUCTOR LINEARITY COIL INDUCTOR INDUCTOR	or QLZ027-821

Δ	Symbol No.	Part No.	Part Name	Description
_	COIL			2030.190.00.
	L701 L702 L703 L704 L705 L931 L933 L940	QQL244K-220Z QQL244K-220Z QQL244K-220Z QQL244K-220Z QQL2644K-220Z QQL26AK-470Z QQL26AK-470Z QQR0582-001Z	INDUCTOR INDUCTOR INDUCTOR INDUCTOR INDUCTOR COIL FERRITE BEADS	47 <sub>1</sub> Н К 47 <sub>1</sub> Н К
	DIOD	ÞΕ		
Δ Δ Δ Δ Δ	D305 D306 D307 D308 D309 D310 D352 D353 D354 D422 D432 D501 D502 D521 D523 D526 D527 D529 D531 D533 D537 D601 D602 D603 D700 D701 D703 D704 D705 D706 D707 D709 D708 D709 D709 D709 D709 D710 D910 D911 D911 D912 D913 D914 D915 D917 D918 D919 D919 D919 D919 D919 D910 D911 D911	155133-T2 155133-T2 155133-T2 155133-T2 155133-T2 155133-T2 177.9.1C-T2 155133-T2 177.9.1C-T2 177.75-T2 177.75-T2 177.75-T2 17513-T2 177.75-T2 17513-T2 177.75-T2 17513-T2 177.75-T2 177.75-T3 177.75-T2 177.7	SI DIODE	
_	TRAN	SISTOR	₹	
	0001 0101 0131 0161 0211	UN2212-X 2SC5083/L-P/-T 2SB709A/QR/-X 2SD601A/QR/-X 2SD601A/QR/-X	DIGI TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	

### [AV-32D303/Y, AV-32D203/Y]

Δ	Symbol No.	Part No.	Part Name	Description			
	TRANSISTOR						
Δ	Q232 Q233 Q352 Q431 Q501 Q511 Q531 Q532 Q541 Q542 Q543 Q623 Q701 Q951 Q971	2SD@1A/QR/-X 2SD@1A/QR/-X 2SD@1A/QR/-X UN2212-X 2SC4212/Z1/ 2SD2845-YD 2SC2785/JH/-T 2SB709A/QR/-X 2SB709A/QR/-X 2SB709A/QR/-X 2SD1408/0Y/-IB 2SD@1A/QR/-X UN2212-X 2SB709A/QR/-X 2SD1383K/AB/-X 2SA1208/ST/Z1-T	TRANSISTOR TRANSISTOR TRANSISTOR DIGI TRANSISTOR POWER TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR POW TRANSISTOR	н.оит			
_	IC			_			
Δ	IC101 IC201	M52342SP TM8812CSBNG3U68	IC IC				
Δ	IC421 IC621 IC702	LA7841 LA4485 AT24C08-32D503	IC IC	(SERVICE)			
	IC703 IC704 IC852	S-80840ANY-T AN78L05-T AN7809F	IC IC IC IC	or BA17809T			
<u>A</u>	IC853 IC911 IC921	AN7805F STR-G6624/F8 SE135N	IC IC	or BA17805T			
_	ОТНЕ	RS					
	CF001 CF151 CF161 CF161 CN003 CN007 CN007 CN007 CN007 CN007 CP932 CP936 F901 F901 F905 F6901 J810 J810 K917 K918 K931 K917 K918 K931 K931 K932 K933 K935 LC602 LC602 LC603 LC603 LC603 LC603 LC603 LC603 LC901 TU001 VA901 X701	QAX0349-001 QAX0649-0017 QAX0649-0017 QGB1505J1-35 QGA2501C5-057 QGA2501C5-047 QGA2501C5-077 QMP0890-200-JS ICP-N70-T ICP-N70-T ICP-N70-T QMF0007-SR0J1 QMF02049-SR0Z-E CEM002-0017 CEM002-0017 QRZ9011-470 QNN0349-002 QNS001-001 QQR0511-0027 QQR0582-0017	C TRAP C TRAP C TRAP C TRAP C FILTER B TO B CONNE W TO B CONNE W TO B CONNE POWER CORD C PROTECTOR C PROTECTOR F USE FUSE CLIP FUSE CLIP F R PIN JACK JACK JACK JACK JACK JACK JACK JACK	or QMPD200-200-JC  5.0A or QMF51U1-5R0-J8 5.0A  4.7 Ω 1/4W J 47Ω 1/2W J  or QQR0527-003 Q\$K0130-001, Q\$K0085-001			

### CRT SOCKET P.W. BOARD ASS'Y (SGE-3004A-M2)

Refer to PARTS LIST in page 55 for this P.W. board

### AV SELECTOR P.W. BOARD ASS'Y (SGE-5001A-M2)

Refer to PARTS LIST in page 45 for this P.W. board

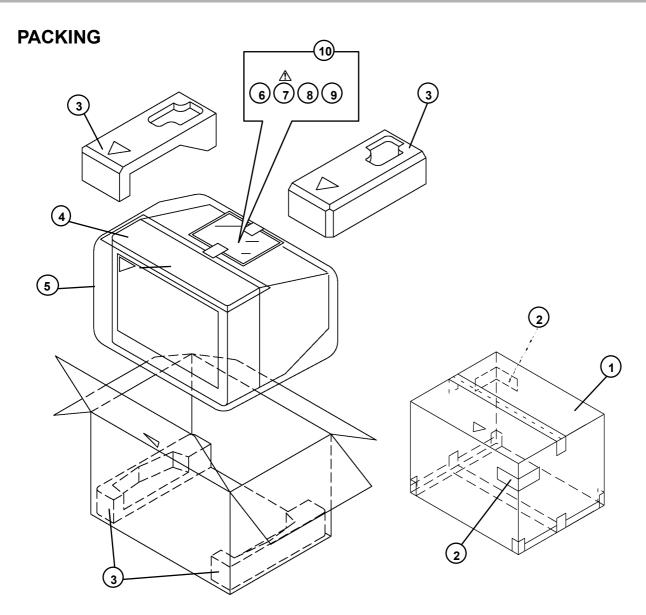
### FRONT AV IN P.W. BOARD ASS'Y (SGE-6001A-M2)

Refer to PARTS LIST in page 46 for this P.W. board

# FRONT CONTROL P.W. BOARD ASS'Y (SGE-7001A-M2)

Refer to PARTS LIST in page 46 for this P.W. board

# [ AV-32D303 / AV-32D203 ]



# **PACKING PARTS LIST**

⚠ Ref.No.	Part No.	Part Name	Description
1 2 3 4 5 6 7 8 9	LC10058-009A CM36616-001-A LC10365-001D CP30611-A02 AP3756-11 RM-C252-1H LCT1128-001A-A BT-51028-2Q BT-52006-1 QPA02503505	PACKING CASE CORNER LABEL CUSHION ASSY TOP COVER POLY COVER REMOCON UNIT INST BOOK REGISTRATION CARD WARRANTY CARD POLY BAG	2pcs in 1set 4pcs in 1set

# **REMOTE CONTROL UNIT PARTS LIST (RM-C252-1H)**

⚠ Ref.No.	Part No.	Part Name	Description
	U R7 7E C 06 03	BATTERY COVER	

Memo

No. 51947 73

AV-	32D	303
AV-	32D	203

Memo

74 No. 51947

Memo

No. 51947 75

AV-32D503	
AV-32D303	
AV-32D203	

# AV-32D503/m/R/Y, AV-32D303/m/R/Y, AV-32D203/m/R/Y STANDARD CIRCUIT DIAGRAM

## ■ NOTE ON USING CIRCUIT DIAGRAMS

## 1.SAFETY

The components identified by the Asymbol and shading are critical for safety. For continued safety replace safety critical components only with manufactures recommended parts.

### 2.SPECIFIED VOLTAGE AND WAVEFORM VALUES

The voltage and waveform values have been measured under the following conditions.

(1)Input signal : Colour bar signal

(2) Setting positions of each knob/button and

: Original setting position variable resistor when shipped

(3)Internal resistance of tester :DC 20k $\Omega$ /V

(4)Oscilloscope sweeping time :H  $\Rightarrow$  20 $\mu$ S/div

:V

:Others ⇒ Sweeping time is specified

 $\Rightarrow$  5mS/div

(5) Voltage values :All DC voltage values

\* Since the voltage values of signal circuit vary to some extent according to adjustments, use them as reference values.

## 3.INDICATION OF PARTS SYMBOL [EXAMPLE]

In the PW board :R1209 → R209

#### 4.INDICATIONS ON THE CIRCUIT DIAGRAM (1)Resistors

Resistance value

No unit  $[\Omega]$ :[K Ω ] :[M  $\Omega$  1]:

Rated allowable power

No indication :1/16 [W] :As specified

Type

No indication :Carbon resistor OMR :Oxide metal film resistor MFR :Metal film resistor MPR :Metal plate resistor UNFR :Uninflammable resistor :Fusible resistor

\* Composition resistor 1/2 [W] is specified as 1/2S or Comp.

### (2)Capacitors

Capacitance value

1 or higher :[pF] less than 1 :[µF] Withstand voltage

No indication :DC50[V]

Others :DC withstand voltage [V] AC indicated :AC withstand voltage [V]

\* Electrolytic Capacitors

47/50[Example]: Capacitance value [µF]/withstand voltage[V]

Type No indication :Ceramic capacitor MM :Metalized mylar capacitor :Polypropylene capacitor MPP :Metalized polypropylene capacitor MF :Metalized film capacitor TF :Thin film capacitor ВP :Bipolar electrolytic capacitor TAN :Tantalum capacitor

(3)Coils

[H4]: No unit :As specified Others

(4)Power Supply

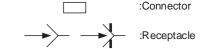
**=** :B1 :B2 (12V) :9V 

\*Respective voltage values are indicated

## (5)Test point

:Test point :Only test point display

## (6)Connecting method



#### (7)Ground symbol

⊥ :LIVE side ground

:ISOLATED(NEUTRAL) side ground

:EARTH ground :DIGITAL ground

#### 5.NOTE FOR REPAIRING SERVICE

This model's power circuit is partly different in the GND. The difference of the GND is shown by the LIVE : ( $\perp$ ) side GND and the ISOLATED(NEUTRAL): (1) side GND. Therefore, care must be taken for the following points.

- (1)Do not touch the LIVE side GND or the LIVE side GND and the ISOLATED(NEUTRAL) side GND simultaneously. If the above caution is not respected, an electric shock may be caused. Therefore, make sure that the power cord is surely removed from the receptacle when, for example, the chassis is pulled out.
- (2)Do not short between the LIVE side GND and ISOLATED(NEUTRAL) side GND or never measure with a measuring apparatus measure with a measuring apparatus (oscilloscope, etc.) the LIVE side GND and ISOLATED(NEUTRAL) side GND at the same time. If the above precaution is not respected, a fuse or any parts will be broken.
- ♦ Since the circuit diagram is a standard one, the circuit and circuit constants may be subject to change for improvement without any notice.

♦ Due improvement in performance, some part numbers show in the circuit diagram may not agree with those indicated in the part list. When ordering parts, please use the numbers that appear

in the Parts List.

:Wrapping or soldering

# **CONTENTS**

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## **SEMICONDUCTOR SHAPES**

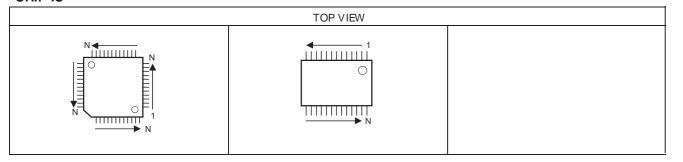
## **TRANSISTOR**

BOTTOM VIEW	FRONT VIEW				TOP VIEW
					CHIP TR
• E C B	E C B	O	© E C B	E C B	C B E

IC

BOTTOM VIEW		TOP VIEW		
OUT E IN	O UUU IN E OUT		1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 → N N N N N N N N N N N N N N N N N N

## CHIP IC



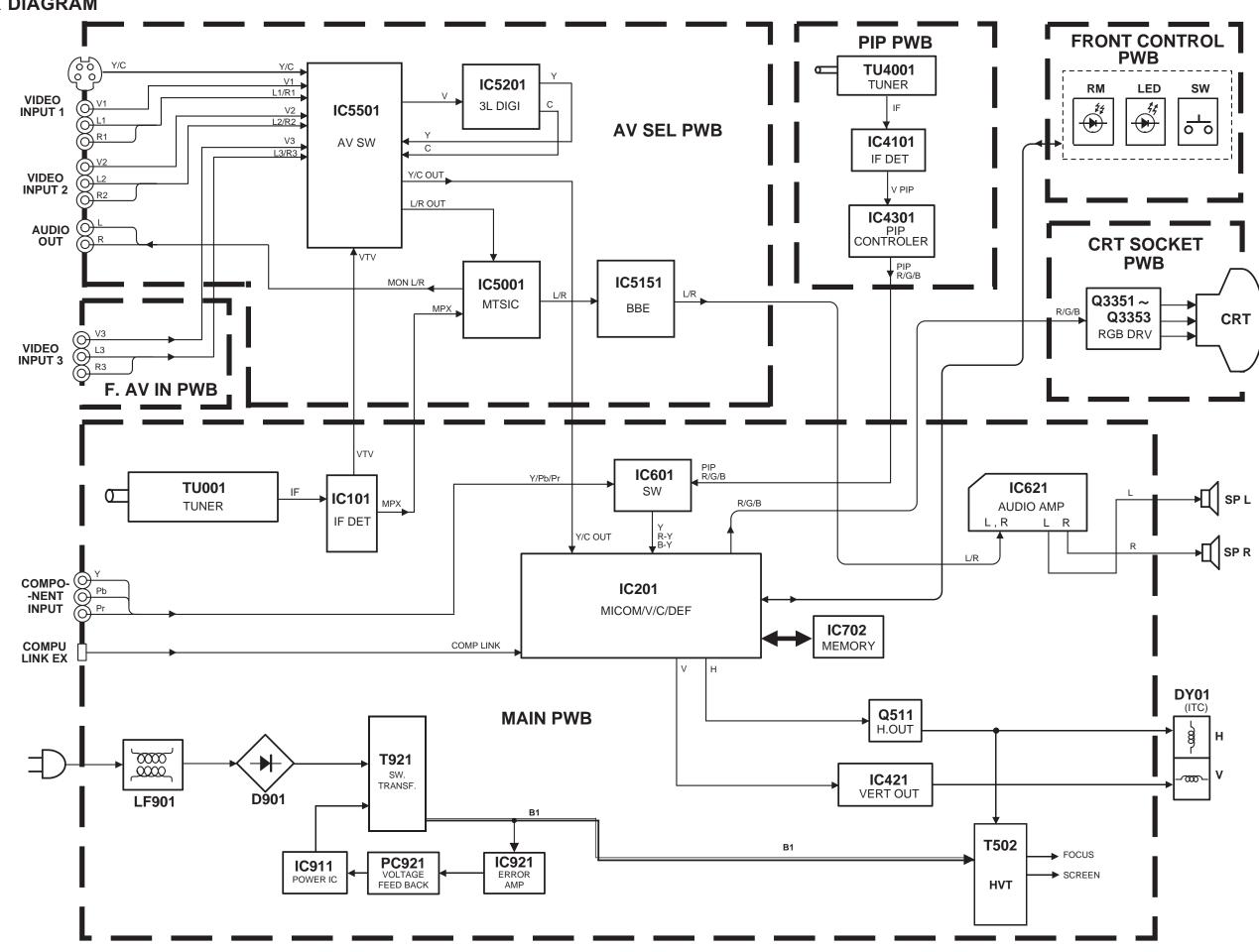
## **CHANNEL CHART (CA)**

HANNEL		CHART (CA)			
	BAND			TUNER	
CATV	2/11/2	REAL	DISP.	BAND	
	VL	0 0 0	3 4 5	I	
0	VH	0 0 1 1 1	8 9 0 1 2		
	MID	A B C D E F G H -	14 15 16 17 18 19 20 21 22	п	
		JKLMO	23 24 25 26 27 28		
	SUPER	Q R S T U V W	29 30 31 32 33 34 35 36		
0	HYPER	W+2 W+3 W+4 W+5 W+6 W+7 W+8 W+9 W+10 W+11 W+12 W+13 W+14 W+15 W+16 W+17 W+18 W+19 W+20 W+21 W+22 W+23 W+24 W+25 W+26 W+27 W+28	37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65	Ш	
	ULTRA	W+30 W+31 W+32 W+33	65 66 67 68 69 70	IV	
	CATV	DE BAND CATV  VL O VH  MID  SUPER  HYPER	DE CATV         BAND         CHAID           VL         0         0           VL         0         0           VH         1         0           VH         1         1           1         1         1           1         1         1           1         1         1           1         1         1           1         1         1           1         1         1           1         1         1           1         1         1           1         1         1           1         1         1           1         1         1           1         1         1           1         1         1           1         1         1           1         1         1           1         1         1           1         1         1           1         1         1           1         1         1           1         1         1           1         1         1           1         1	DE   BAND   CHAUTEL   DISP.     REAL	

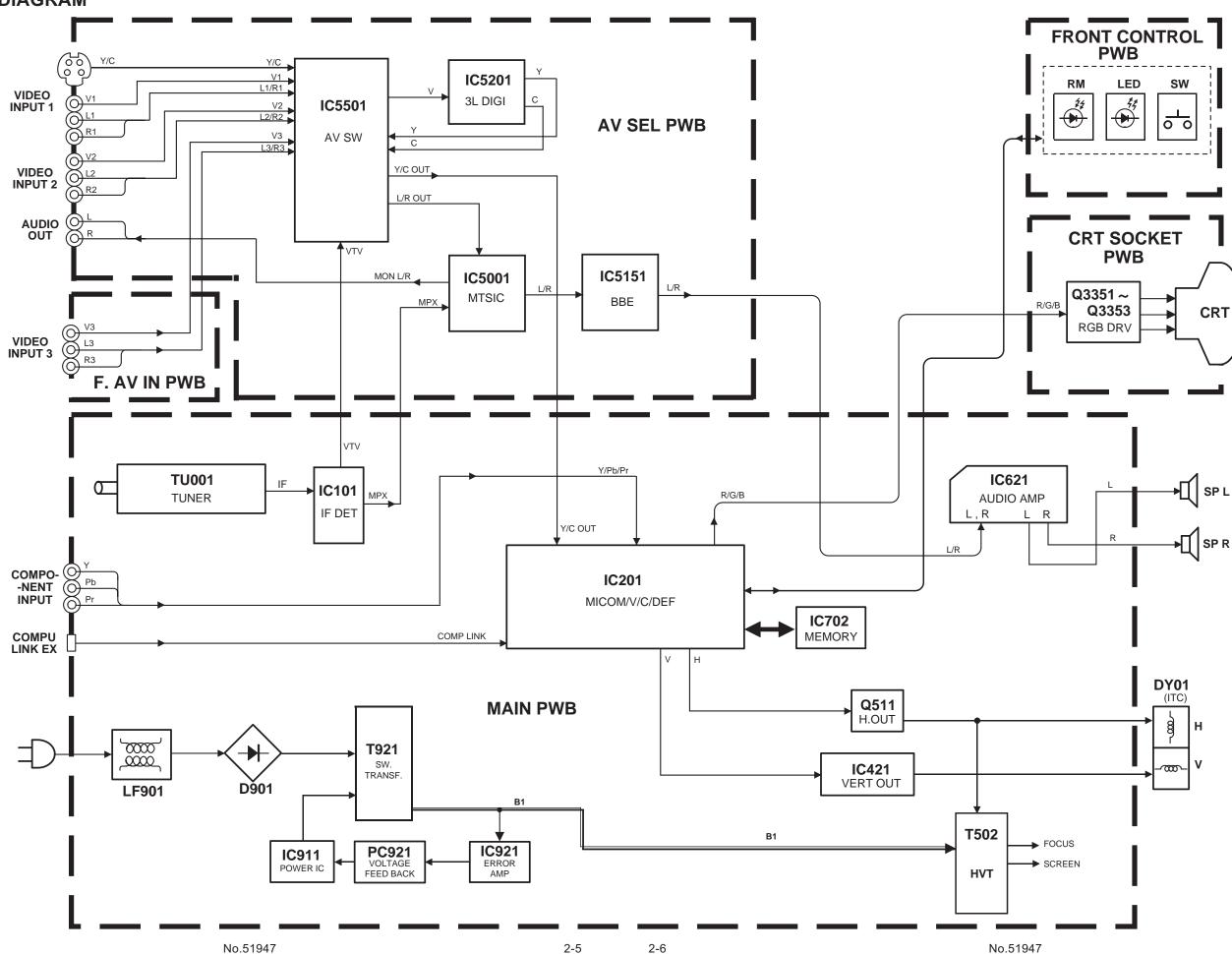
MO	DE	DANID	CHANNEL REAL DISP.		TUNER
TV	CATV	BAND			BAND
×	O	ULTRA	W+35 W+36 W+37 W+38 W+39 W+40 W+41 W+42 W+43 W+44 W+45 W+46 W+47 W+50 W+51 W+52 W+53 W+54 W+55 W+56 W+57 W+58 W+55 W+66 W+67 W+68 W+67 W+68 W+69 W+70 W+71 W+72 W+73 W+74 W+75 W+76 W+77 W+78 W+79 W+80 W+81 W+82 W+83 W+84	71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125	IV
		SUB	A-8 A-4	01 96	I
		MID	A-3 A-2 A-1	97 98 99	П
0	×	UHF	6	IV	
		TOTAL { VI UI			
NOTE: TO RECEIVE THE SUBSCRIPTION OR PREMIUM PROGRAMMING FROM CERTAIN					

TO RECEIVE THE SUBSCRIPTION OR PREMIUM PROGRAMMING FROM CERTAIN CABLE COMPANIES.
SPECIAL ADAPTERS MAY BE REQUIRED.

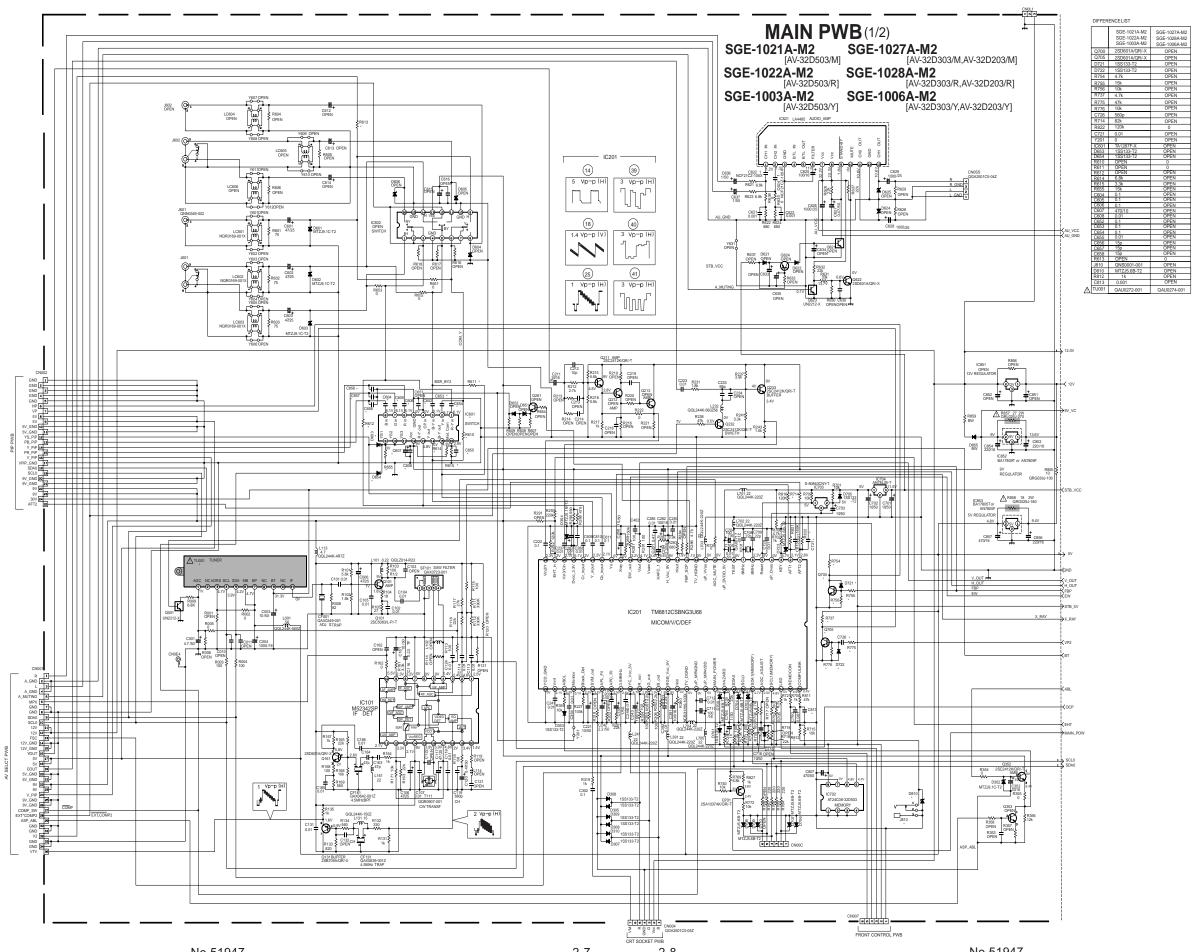
2-2 No.51947 2-27



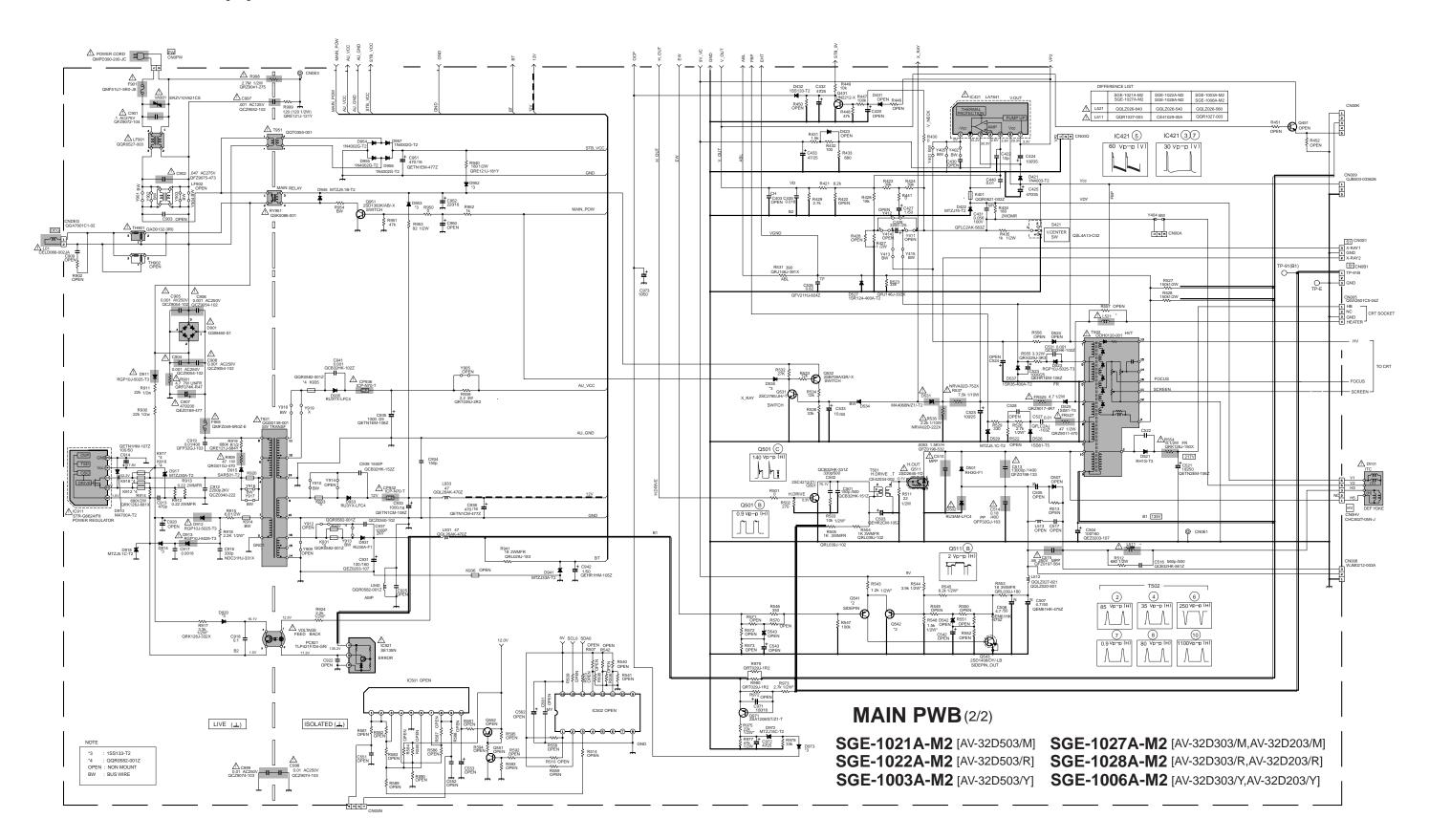
## **BLOCK DIAGRAM**



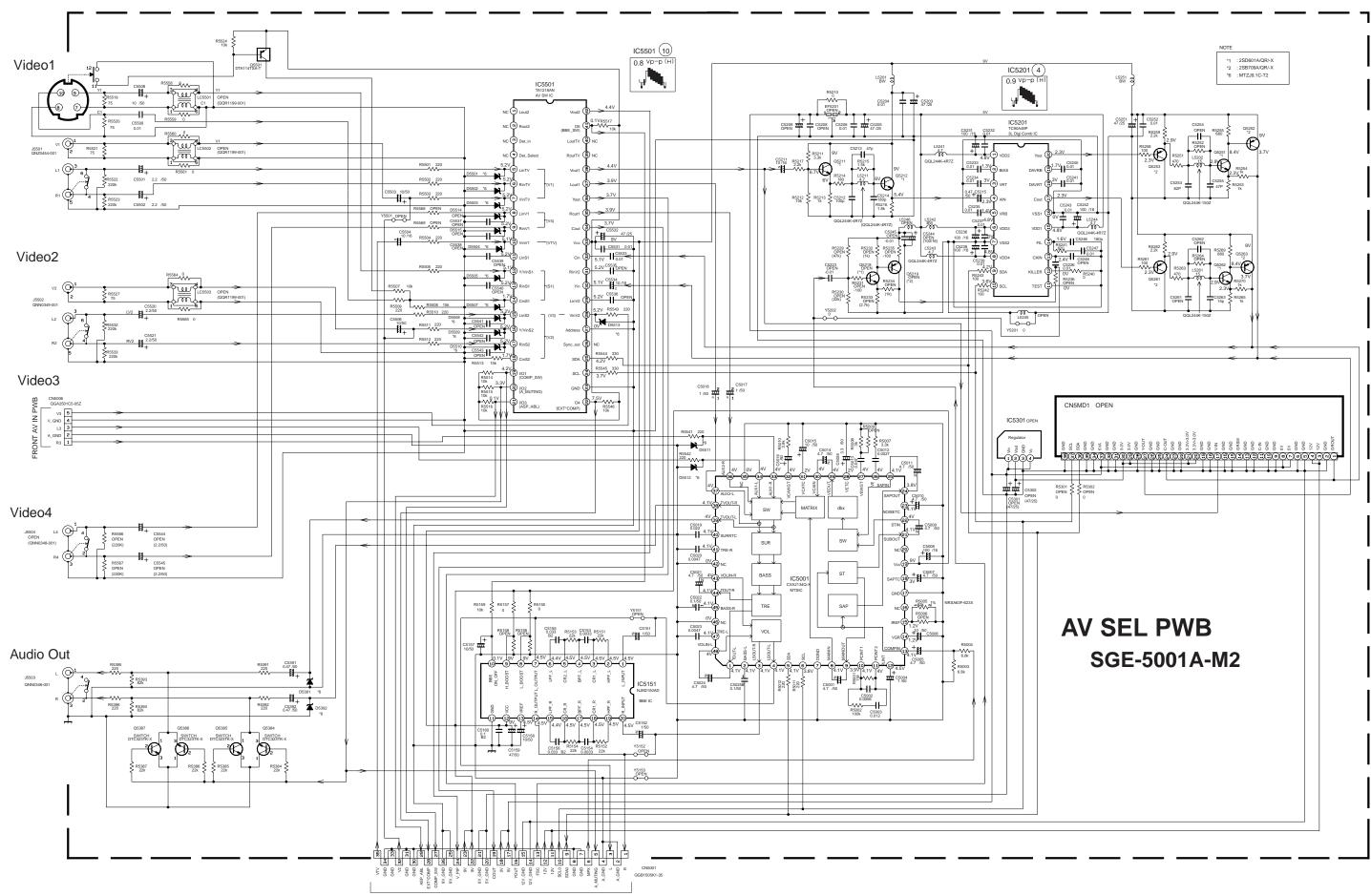
## CIRCUIT DIAGRAMS MAIN PWB CIRCUIT DIAGRAMS [1/2]

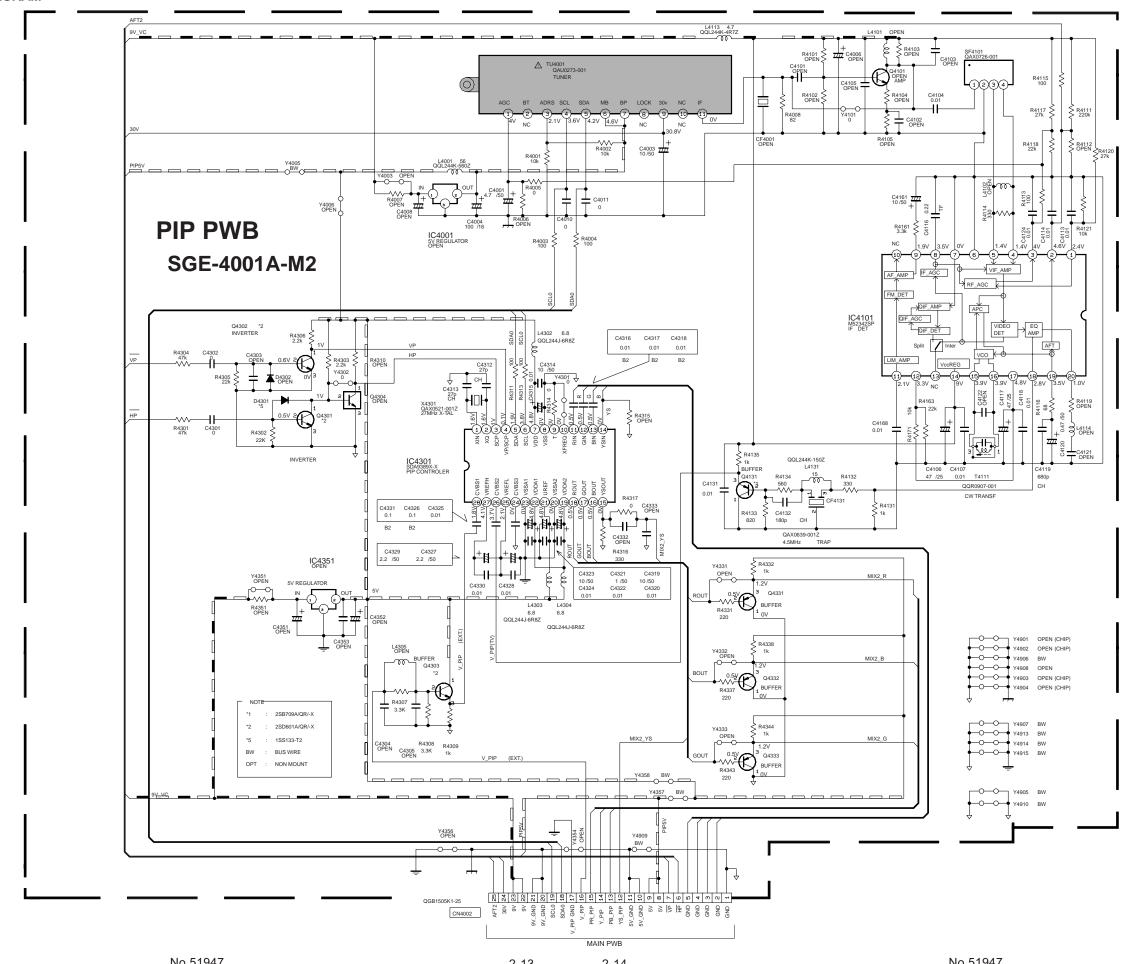


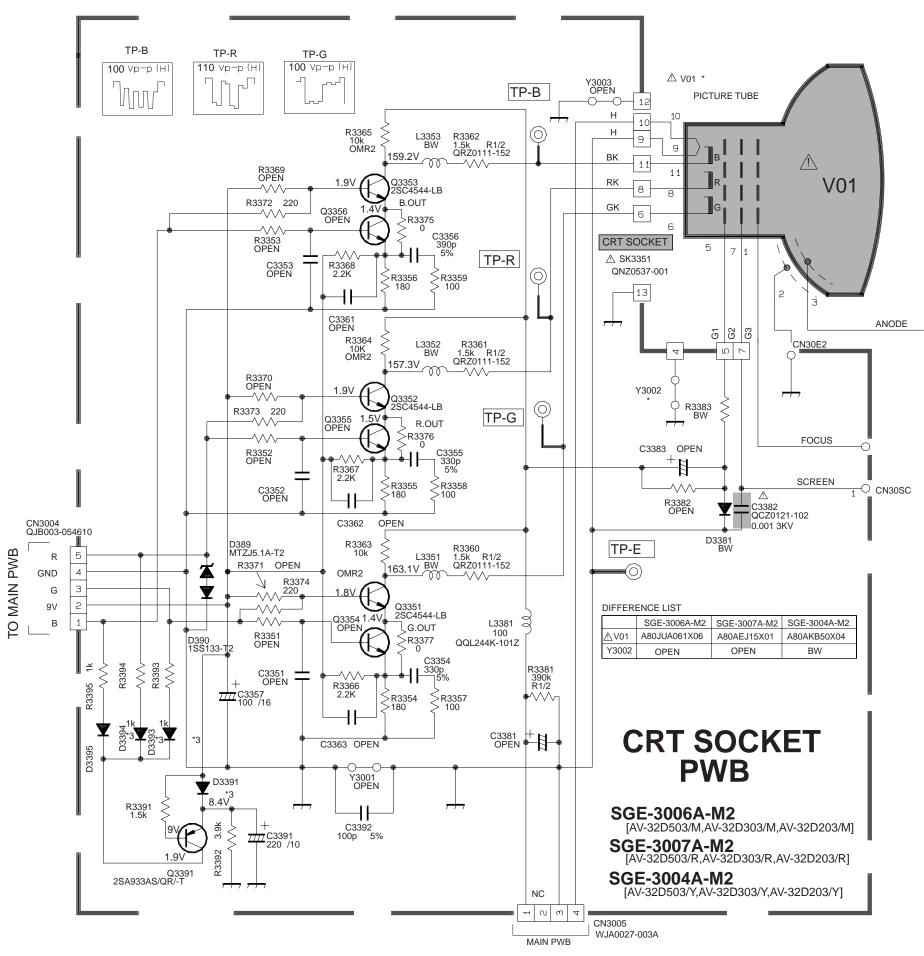
## MAIN PWB CIRCUIT DIAGRAM [2/2]

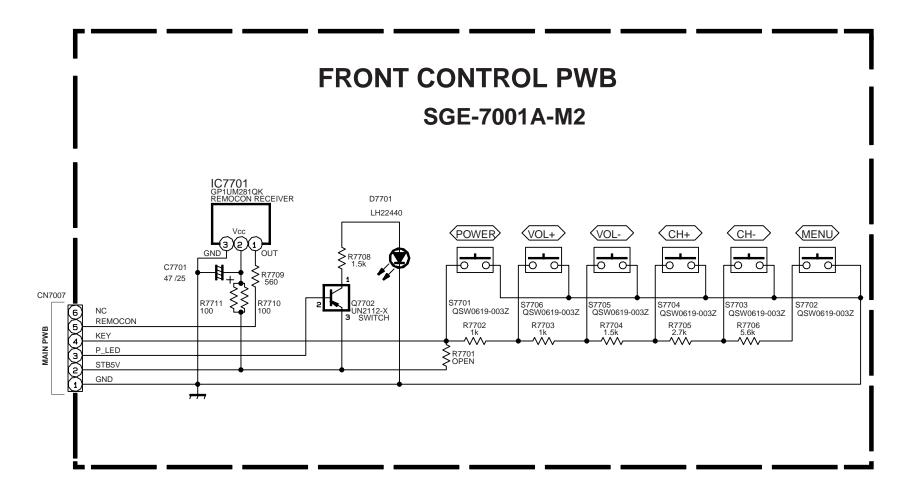


## AV SEL PWB CIRCUIT DIAGRAM

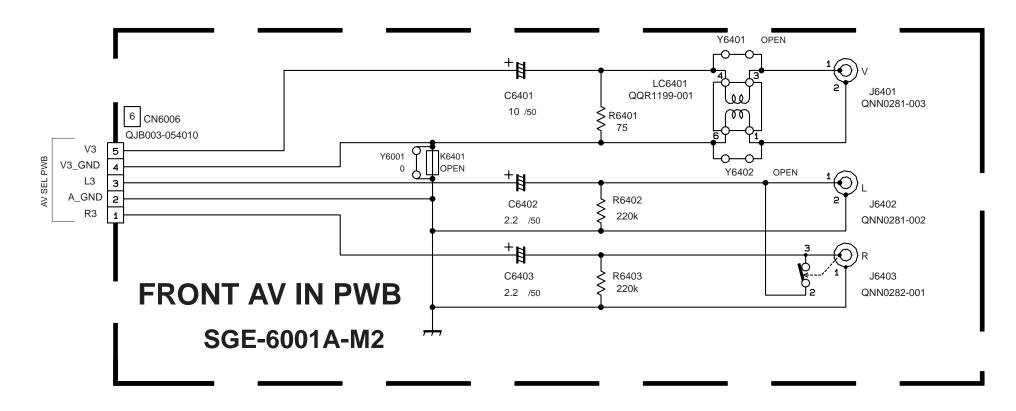




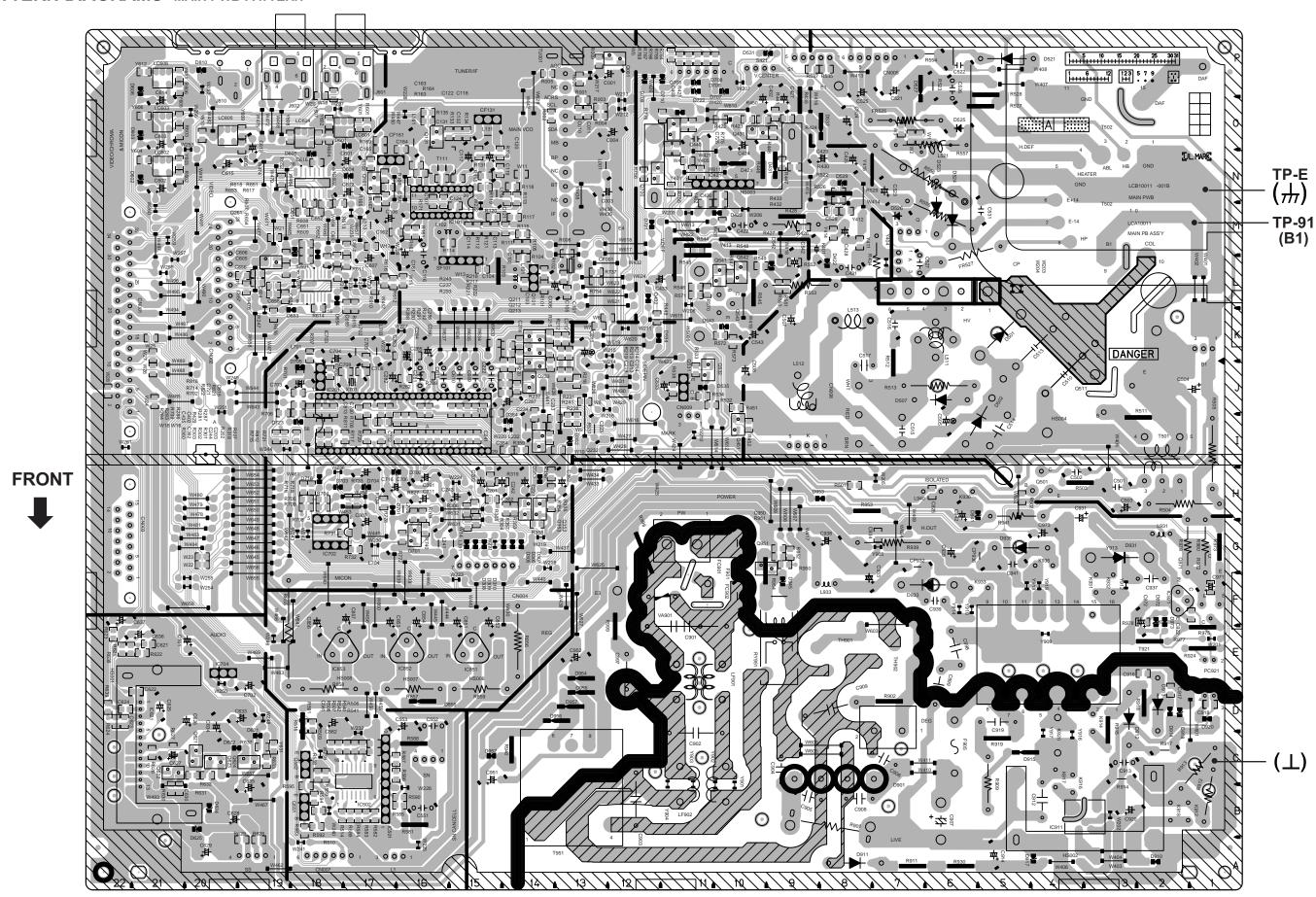


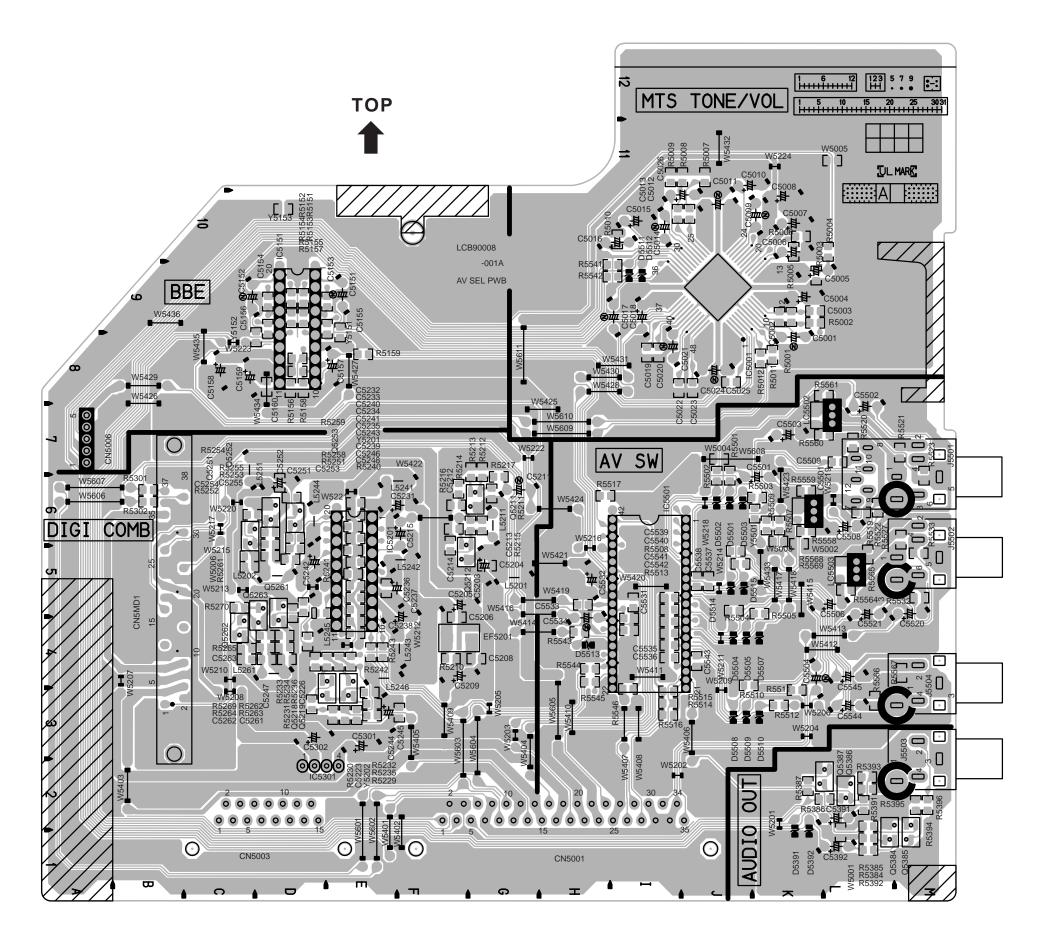


## FRONT AV IN PWB CIRCUIT DIAGRAM



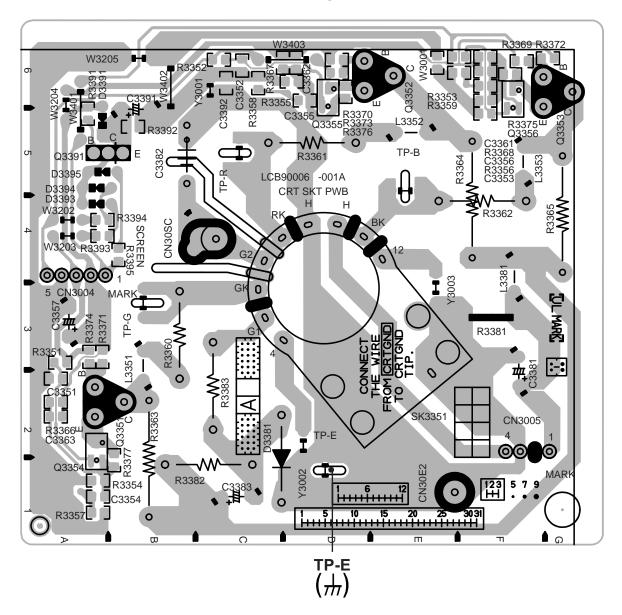
## PATTERN DIAGRAMS MAIN PWB PATTERN

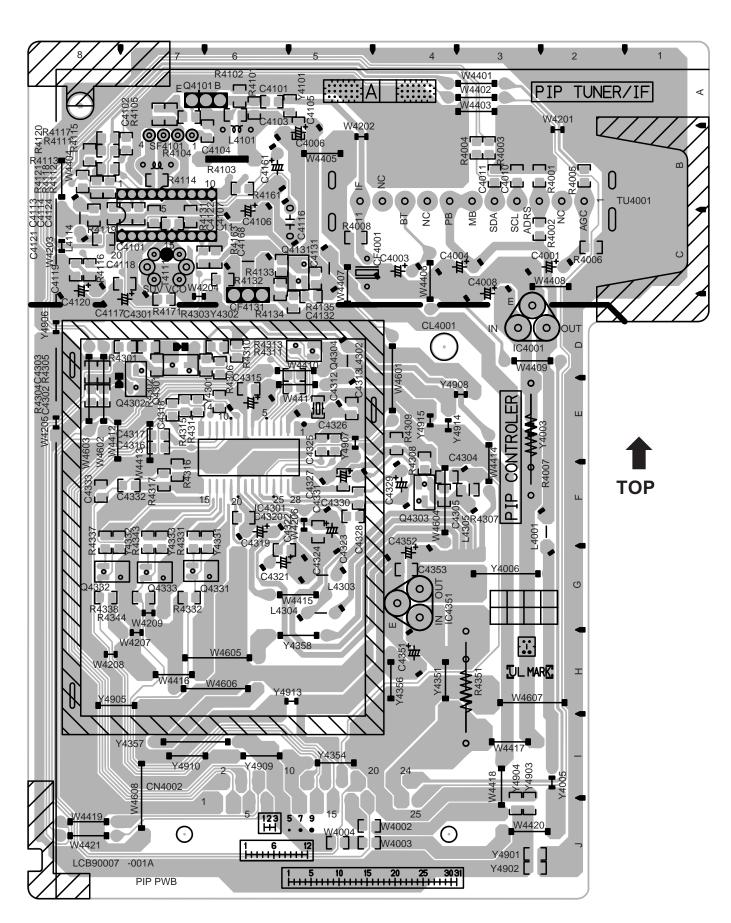




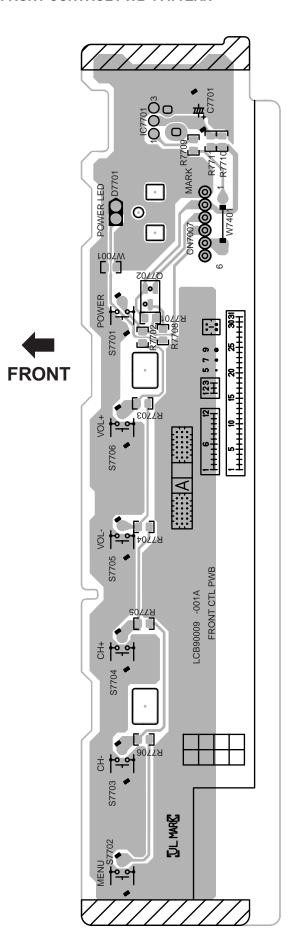
### PIP PWB PATTERN

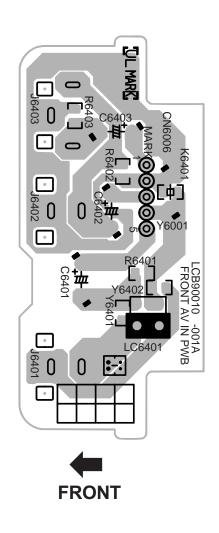






## FRONT AV IN PWB PATTERN





CHANNEL	CHART (US)	
CHAMMEL	CHARITUSI	

		CHAF			
	DE	BAND		NNEL	TUNER
TV	CATV	27110	REAL	DISP.	BAND
	_	VL	0	2 3 4 5 6	I
0		O VH	0 1 1 1	7 8 9 0 1 2 3	П
			A B	14 15	I
		MID	О Д Ш Ғ	16 17 18 19 20 21 22	
		SUPER	7 K L M Z O P O R W F U > S	23 24 25 26 27 28 29 30 31 32 33 34 35 36	п
×	0		W+1 W+2 W+3 W+4 W+5 W+6 W+7 W+8 W+9 W+10 W+11	37 38 39 40 41 42 43 44 45 46 47	
		HYPER	W+12 W+13 W+14 W+15 W+16 W+17 W+19 W+20 W+21 W+22 W+23 W+24 W+25 W+26 W+27 W+28	48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64	īV
		ULTRA	W+29 W+30 W+31 W+32 W+33 W+34	65 66 67 68 69 70	

МО	DE	BAND	CHANNEL		TUNER	
TV	CATV	2411	REAL	DISP.	BAND	
×	0	ULTRA	W+35 W+36 W+37 W+38 W+39 W+40 W+41 W+42 W+43 W+44 W+45 W+46 W+47 W+48 W+50 W+51 W+52 W+53 W+56 W+57 W+58 W+55 W+66 W+67 W+68 W+67 W+68 W+69 W+70 W+71 W+72 W+73 W+74 W+75 W+76 W+77 W+78 W+79 W+80 W+81 W+82 W+83 W+84	71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125	IV	
		SUB MID	A-8 A-4 A-3 A-2 A-1	01 96 97 98 99	I	
0	×	UHF	1	IV		
TOTAL 180CH { VHF 124CH { UHF 56CH						
NOTE: TO RECEIVE THE SUBSCRIPTION OR PREMIUM PROGRAMMING FROM CERTAIN CABLE COMPANIES. SPECIAL ADAPTERS MAY BE REQUIRED.						